



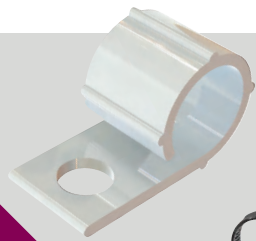
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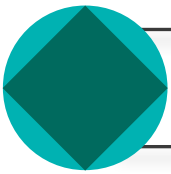


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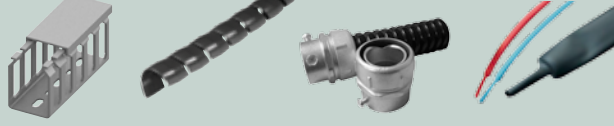
Cable Clamps & Clips

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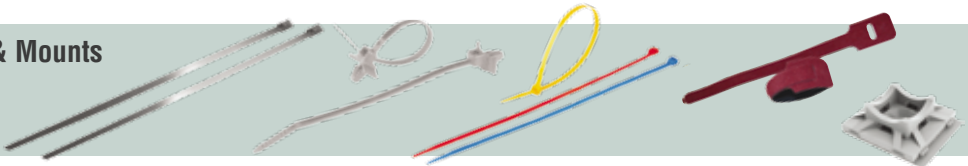
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CABLE CLAMPS

SPN / SPNW

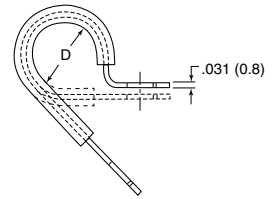
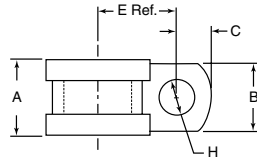
Steel Clamp with Rubber Cushion

Specifications:

- Material: Cold Rolled Steel, Zinc Electroplated, Elastomer Cushion
- Color: Steel with Black Cushion

Features:

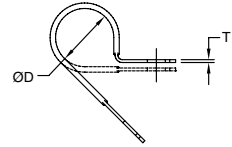
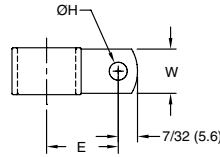
- Provides electrical insulation and vibration absorption
- Ideal for long-life applications



| Item No. | D Holding Ø | | B | | A | | H Hole Ø | | E Ref. | | C | | Pack Qty. | Bulk Pack Qty. |
|----------|-------------|------|-------|------|-------|------|----------|------|--------|------|-------|-----|-----------|----------------|
| | In | mm | In | mm | In | mm | In | mm | In | mm | In | mm | | |
| SPN-3 | 0.188 | 4.8 | 0.500 | 12.7 | 0.650 | 16.5 | 0.266 | 6.7 | 0.500 | 12.7 | 0.260 | 6.6 | 1 | 500 |
| SPN-4 | 0.250 | 6.4 | 0.500 | 12.7 | 0.650 | 16.5 | 0.266 | 6.7 | 0.530 | 13.5 | 0.260 | 6.6 | 1 | 500 |
| SPNW-4 | 0.250 | 6.4 | 0.625 | 15.9 | 0.750 | 19.1 | 0.406 | 10.3 | 0.530 | 13.5 | 0.313 | 7.9 | 1 | 100 |
| SPN-5 | 0.313 | 7.9 | 0.500 | 12.7 | 0.650 | 16.5 | 0.266 | 6.7 | 0.560 | 14.2 | 0.260 | 6.6 | 1 | 500 |
| SPNW-5 | 0.313 | 7.9 | 0.625 | 15.9 | 0.750 | 19.1 | 0.406 | 10.3 | 0.560 | 14.2 | 0.313 | 7.9 | 1 | 100 |
| SPN-6 | 0.375 | 9.5 | 0.500 | 12.7 | 0.650 | 16.5 | 0.266 | 6.7 | 0.590 | 15 | 0.260 | 6.6 | 1 | 500 |
| SPNW-6 | 0.375 | 9.5 | 0.625 | 15.9 | 0.750 | 19.1 | 0.406 | 10.3 | 0.590 | 15 | 0.313 | 7.9 | 1 | 100 |
| SPN-7 | 0.438 | 11.1 | 0.500 | 12.7 | 0.650 | 16.5 | 0.266 | 6.7 | 0.620 | 15.7 | 0.260 | 6.6 | 1 | 500 |
| SPNW-7 | 0.438 | 11.1 | 0.625 | 15.9 | 0.750 | 19.1 | 0.406 | 10.3 | 0.620 | 15.7 | 0.313 | 7.9 | 1 | 100 |
| SPN-8 | 0.500 | 12.7 | 0.500 | 12.7 | 0.650 | 16.5 | 0.266 | 6.7 | 0.650 | 16.5 | 0.260 | 6.6 | 1 | 500 |
| SPNW-8 | 0.500 | 12.7 | 0.625 | 15.9 | 0.750 | 19.1 | 0.406 | 10.3 | 0.650 | 16.5 | 0.313 | 7.9 | 1 | 100 |
| SPN-9 | 0.563 | 14.3 | 0.500 | 12.7 | 0.650 | 16.5 | 0.266 | 6.7 | 0.750 | 19.1 | 0.260 | 6.6 | 1 | 500 |
| SPN-10 | 0.625 | 15.9 | 0.500 | 12.7 | 0.650 | 16.5 | 0.266 | 6.7 | 0.780 | 19.8 | 0.260 | 6.6 | 1 | 500 |
| SPNW-10 | 0.625 | 15.9 | 0.625 | 15.9 | 0.750 | 19.1 | 0.406 | 10.3 | 0.780 | 19.8 | 0.313 | 7.9 | 1 | 100 |
| SPN-11 | 0.688 | 17.5 | 0.500 | 12.7 | 0.650 | 16.5 | 0.266 | 6.7 | 0.810 | 20.6 | 0.260 | 6.6 | 1 | 500 |
| SPNW-11 | 0.688 | 17.5 | 0.625 | 15.9 | 0.750 | 19.1 | 0.406 | 10.3 | 0.810 | 20.6 | 0.313 | 7.9 | 1 | 100 |
| SPN-12 | 0.750 | 19.1 | 0.500 | 12.7 | 0.650 | 16.5 | 0.266 | 6.7 | 0.840 | 21.3 | 0.260 | 6.6 | 1 | 500 |
| SPN-14 | 0.875 | 22.2 | 0.500 | 12.7 | 0.650 | 16.5 | 0.266 | 6.7 | 0.900 | 22.9 | 0.260 | 6.6 | 1 | 100 |
| SPNW-14 | 0.875 | 22.2 | 0.625 | 15.9 | 0.750 | 19.1 | 0.406 | 10.3 | 0.900 | 22.9 | 0.313 | 7.9 | 1 | 100 |
| SPN-16 | 1.000 | 25.4 | 0.500 | 12.7 | 0.650 | 16.5 | 0.266 | 6.7 | 0.960 | 24.4 | 0.260 | 6.6 | 1 | 100 |
| SPNW-16 | 1.000 | 25.4 | 0.625 | 15.9 | 0.750 | 19.1 | 0.406 | 10.3 | 0.960 | 24.4 | 0.313 | 7.9 | 1 | 100 |
| SPN-18 | 1.125 | 28.6 | 0.500 | 12.7 | 0.650 | 16.5 | 0.266 | 6.7 | 1.050 | 26.7 | 0.260 | 6.6 | 1 | 100 |
| SPN-20 | 1.250 | 31.8 | 0.500 | 12.7 | 0.650 | 16.5 | 0.266 | 6.7 | 1.110 | 28.2 | 0.260 | 6.6 | 1 | 100 |
| SPNW-20 | 1.250 | 31.8 | 0.625 | 15.9 | 0.750 | 19.1 | 0.406 | 10.3 | 1.110 | 28.2 | 0.313 | 7.9 | 1 | 100 |

NE

Aluminum Clamp with Vinyl Coating



Specifications:

- Material: Aluminum Alloy 5052 H-32, TPV Coating
- Color: Aluminum with Black Coating

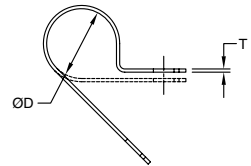
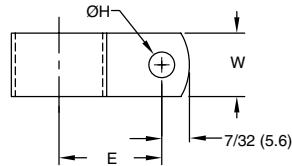
Features:

- Vinyl coating allows a more permanent solution for protecting cables against vibration
- Screw mount area is bare to ensure firm tightening

| Item No. | Holding Ø D | | Ø H Hole | | E Ref. | | T | | W | | Pack Qty. | Bulk Pack Qty. |
|----------|-------------|------|----------|-----|--------|------|------|-----|-----|------|-----------|----------------|
| | In | mm | In | mm | In | mm | In | mm | In | mm | | |
| NE3 | 3/16 | 4.8 | .204 | 5.2 | .50 | 12.7 | 1/32 | 0.8 | 3/8 | 9.5 | 1 | 1000 |
| NE4 | 1/4 | 6.4 | .204 | 5.2 | .53 | 13.5 | 1/32 | 0.8 | 3/8 | 9.5 | 1 | 1000 |
| NE5 | 5/16 | 7.9 | .204 | 5.2 | .56 | 14.2 | 1/32 | 0.8 | 3/8 | 9.5 | 1 | 1000 |
| NE6 | 3/8 | 9.5 | .204 | 5.2 | .59 | 15.0 | 1/32 | 0.8 | 3/8 | 9.5 | 1 | 1000 |
| NE7 | 7/16 | 11.1 | .204 | 5.2 | .62 | 15.7 | 1/32 | 0.8 | 3/8 | 9.5 | 1 | 1000 |
| NE8 | 1/2 | 12.7 | .204 | 5.2 | .65 | 16.5 | 1/32 | 0.8 | 3/8 | 9.5 | 1 | 1000 |
| NE9 | 9/16 | 14.3 | .204 | 5.2 | .75 | 19.1 | 1/32 | 0.8 | 3/8 | 9.5 | 1 | 1000 |
| NE10 | 5/8 | 15.9 | .204 | 5.2 | .78 | 19.8 | 1/32 | 0.8 | 3/8 | 9.5 | 1 | 1000 |
| NE11 | 11/16 | 17.5 | .204 | 5.2 | .81 | 20.6 | 1/16 | 1.6 | 1/2 | 12.7 | 1 | 500 |
| NE12 | 3/4 | 19.1 | .204 | 5.2 | .84 | 21.3 | 1/16 | 1.6 | 1/2 | 12.7 | 1 | 500 |
| NE14 | 7/8 | 22.2 | .204 | 5.2 | .90 | 22.9 | 1/16 | 1.6 | 1/2 | 12.7 | 1 | 500 |
| NE16 | 1 | 25.4 | .204 | 5.2 | .96 | 24.4 | 1/16 | 1.6 | 1/2 | 12.7 | 1 | 500 |
| NE18 | 1-1/8 | 28.6 | .204 | 5.2 | 1.05 | 26.7 | 1/16 | 1.6 | 1/2 | 12.7 | 1 | 500 |
| NE20 | 1-1/4 | 31.8 | .204 | 5.2 | 1.11 | 28.2 | 1/16 | 1.6 | 1/2 | 12.7 | 1 | 500 |

AL

Aluminum Clamp



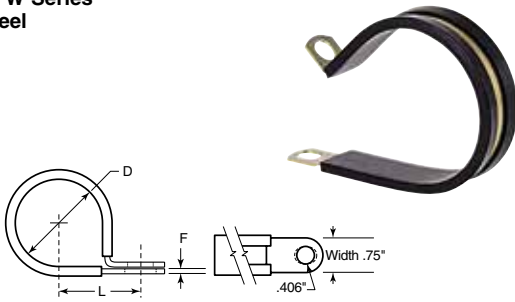
| Item No. | Holding Ø D | | Ø H Hole | | E Ref. | | T | | W | | Pack Qty. | Bulk Pack Qty. |
|----------|-------------|------|----------|-----|--------|------|------|-----|-----|------|-----------|----------------|
| | In | mm | In | mm | In | mm | In | mm | In | mm | | |
| AL2A | 1/8 | 3.2 | .204 | 5.2 | .46 | 11.7 | 1/32 | 0.8 | 3/8 | 9.5 | 1 | 1000 |
| AL3A | 3/16 | 4.8 | .204 | 5.2 | .50 | 12.7 | 1/32 | 0.8 | 3/8 | 9.5 | 1 | 1000 |
| AL4A | 1/4 | 6.4 | .204 | 5.2 | .53 | 13.5 | 1/32 | 0.8 | 3/8 | 9.5 | 1 | 1000 |
| AL5A | 5/16 | 7.9 | .204 | 5.2 | .56 | 14.2 | 1/32 | 0.8 | 3/8 | 9.5 | 1 | 1000 |
| AL6A | 3/8 | 9.5 | .204 | 5.2 | .59 | 15.0 | 1/32 | 0.8 | 3/8 | 9.5 | 1 | 1000 |
| AL7A | 7/16 | 11.1 | .204 | 5.2 | .62 | 15.7 | 1/32 | 0.8 | 3/8 | 9.5 | 1 | 1000 |
| AL8A | 1/2 | 12.7 | .204 | 5.2 | .65 | 16.5 | 1/32 | 0.8 | 3/8 | 9.5 | 1 | 1000 |
| AL9A | 9/16 | 14.3 | .204 | 5.2 | .75 | 19.1 | 1/32 | 0.8 | 3/8 | 9.5 | 1 | 1000 |
| AL10A | 5/8 | 15.9 | .204 | 5.2 | .78 | 19.8 | 1/32 | 0.8 | 3/8 | 9.5 | 1 | 1000 |
| AL11 | 11/16 | 17.5 | .204 | 5.2 | .81 | 20.6 | 1/32 | 0.8 | 1/2 | 12.7 | 1 | 500 |
| AL12 | 3/4 | 19.1 | .204 | 5.2 | .84 | 21.3 | 1/32 | 0.8 | 1/2 | 12.7 | 1 | 500 |
| AL14 | 7/8 | 22.2 | .204 | 5.2 | .90 | 22.9 | 1/32 | 0.8 | 1/2 | 12.7 | 1 | 500 |
| AL16 | 1 | 25.4 | .204 | 5.2 | .96 | 24.4 | 1/16 | 1.6 | 1/2 | 12.7 | 1 | 500 |
| AL18 | 1-1/8 | 28.6 | .204 | 5.2 | 1.05 | 26.7 | 1/16 | 1.6 | 1/2 | 12.7 | 1 | 500 |
| AL20 | 1-1/4 | 31.8 | .204 | 5.2 | 1.11 | 28.2 | 1/16 | 1.6 | 1/2 | 12.7 | 1 | 500 |

Specifications:

- Material: Aluminum Alloy 5052 H-32
- Color: Aluminum



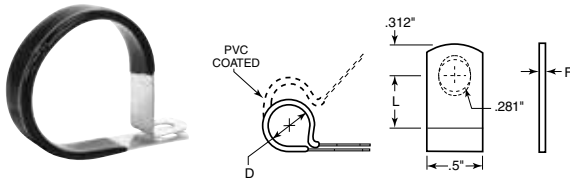
**Loop Clamps
SPW Series
Steel**



- Light to medium duty steel clamp
- EPDM cushion for electrical insulation and vibration absorption
- Steel clamps are zinc electroplated for corrosion resistance
- Temperature range -50 degrees Fahrenheit to +275 degrees Fahrenheit

| Item No. | Size | D | L | F | Pack Qty. |
|----------|------|-------|-------|------|-----------|
| ZS-454 | ¼ | .250 | .656 | .031 | 1 |
| ZS-456 | ⅜ | .375 | .718 | .031 | 1 |
| ZS-458 | ½ | .500 | .781 | .031 | 1 |
| ZS-460 | ⅝ | .625 | .843 | .031 | 1 |
| ZS-462 | ¾ | .750 | .906 | .031 | 1 |
| ZS-464 | 1 | 1.000 | 1.031 | .031 | 1 |
| ZS-466 | 1 ⅛ | 1.125 | 1.093 | .050 | 1 |
| ZS-468 | 1 ¼ | 1.250 | 1.000 | .032 | 1 |
| ZS-470 | 1 ½ | 1.500 | 1.218 | .032 | 1 |
| ZS-472 | 2 | 2 | 1.468 | .040 | 1 |

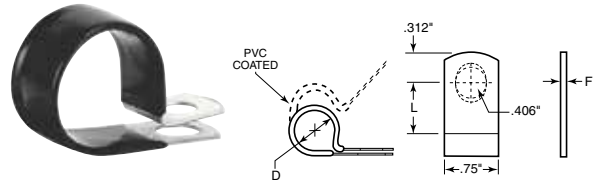
**Loop Clamps
SVN Series
Steel**



- Medium duty steel clamp that can be slipped over a tube or wire and closed with a bolt at assembly. Holes provide easy alignment. Its pre-developed shape allows for proper closing and excellent fit of the clamp.
- Galvanized steel
- PVC coated, black color
- Temperature range -25 degrees Fahrenheit to +160 degrees Fahrenheit

| Item No. | Size | D | L | F | Pack Qty. |
|----------|------|-------|------|------|-----------|
| ZS-474 | ⅜ | .187 | .500 | .032 | 1 |
| ZS-476 | ¼ | .250 | .531 | .032 | 1 |
| ZS-478 | ⅝ | .312 | .562 | .032 | 1 |
| ZS-480 | ⅜ | .375 | .593 | .032 | 1 |
| ZS-482 | ½ | .500 | .656 | .048 | 1 |
| ZS-484 | ⅝ | .562 | .687 | .048 | 1 |
| ZS-486 | ¾ | .625 | .718 | .048 | 1 |
| ZS-488 | ¾ | .750 | .781 | .048 | 1 |
| ZS-490 | 7/8 | .875 | .843 | .048 | 1 |
| ZS-492 | 1 | 1.000 | .906 | .048 | 1 |
| ZS-494 | 1 ⅛ | 1.125 | .968 | .048 | 1 |

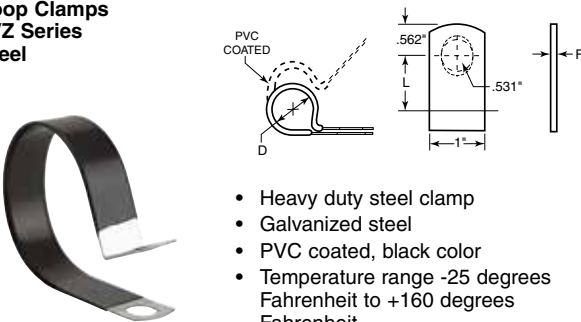
**Loop Clamps
SVW Series
Steel**



- Medium duty steel clamp that can be slipped over a tube or wire and closed with a bolt at assembly. Holes provide easy alignment. Its pre-developed shape allows for proper closing and excellent fit of the clamp
- Galvanized steel
- PVC coated, black color
- Temperature range -25 degrees Fahrenheit to +160 degrees Fahrenheit

| Item No. | Size | D | L | F | Pack Qty. |
|----------|--------|-------|-------|------|-----------|
| ZS-496 | ¼ | .250 | .656 | .032 | 1 |
| ZS-498 | ⅜ | .375 | .718 | .032 | 1 |
| ZS-500 | ½ | .500 | .781 | .048 | 1 |
| ZS-502 | ⅝ | .562 | .812 | .048 | 1 |
| ZS-504 | ¾ | .625 | .843 | .048 | 1 |
| ZS-506 | ¾ | .750 | .906 | .048 | 1 |
| ZS-508 | 1 ⅛ | .812 | .937 | .048 | 1 |
| ZS-510 | 7/8 | .875 | .968 | .048 | 1 |
| ZS-512 | 1 ⅛ | .937 | 1.000 | .048 | 1 |
| ZS-514 | 1 | 1.000 | 1.031 | .048 | 1 |
| ZS-516 | 1 1/16 | 1.050 | 1.062 | .048 | 1 |
| ZS-518 | 1 1/8 | 1.125 | 1.092 | .048 | 1 |

**Loop Clamps
LVZ Series
Steel**



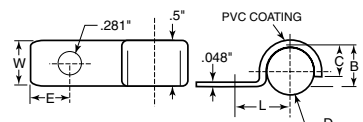
- Heavy duty steel clamp
- Galvanized steel
- PVC coated, black color
- Temperature range -25 degrees Fahrenheit to +160 degrees Fahrenheit

| Item No. | Size | D | L | F | Pack Qty. |
|----------|--------|-------|-------|------|-----------|
| ZS-520 | 1 1/8 | 1.130 | 1.218 | .048 | 1 |
| ZS-522 | 1 1/16 | 1.190 | 1.250 | .048 | 1 |
| ZS-524 | 1 1/4 | 1.250 | 1.281 | .048 | 1 |
| ZS-526 | 1 3/16 | 1.310 | 1.312 | .048 | 1 |
| ZS-528 | 1 1/2 | 1.500 | 1.406 | .048 | 1 |
| ZS-530 | 1 5/16 | 1.560 | 1.437 | .048 | 1 |
| ZS-532 | 1 3/4 | 1.750 | 1.531 | .048 | 1 |
| ZS-534 | 1 7/16 | 1.810 | 1.562 | .048 | 1 |
| ZS-536 | 2 | 2.000 | 1.687 | .048 | 1 |
| ZS-538 | 2 1/16 | 2.060 | 1.718 | .048 | 1 |
| ZS-540 | 2 1/4 | 2.250 | 1.812 | .048 | 1 |
| ZS-542 | 2 1/2 | 2.500 | 1.937 | .048 | 1 |
| ZS-544 | 2 5/8 | 2.630 | 2.000 | .048 | 1 |
| ZS-546 | 2 3/4 | 2.750 | 2.062 | .048 | 1 |
| ZS-548 | 2 7/8 | 2.880 | 2.125 | .048 | 1 |
| ZS-550 | 3 1/16 | 3.560 | 2.437 | .048 | 1 |

**Loop Clamps
HVN Series
Steel**



| Item No. | Size | D | L | E | B | C | W | Pack Qty. |
|----------|------|------|------|------|------|------|---|-----------|
| ZS-552 | ¼ | .250 | .500 | .250 | .250 | .188 | ½ | 1 |
| ZS-554 | ⅝ | .312 | .531 | .312 | .312 | .218 | ⅝ | 1 |
| ZS-556 | ⅜ | .375 | .562 | .312 | .375 | .281 | ⅝ | 1 |
| ZS-558 | ½ | .500 | .687 | .312 | .500 | .343 | ⅝ | 1 |
| ZS-560 | ⅝ | .562 | .750 | .312 | .562 | .437 | ⅝ | 1 |
| ZS-562 | ¾ | .625 | .812 | .312 | .625 | .406 | ⅝ | 1 |
| ZS-564 | ¾ | .750 | .875 | .312 | .750 | .468 | ⅝ | 1 |



- Black vinyl plastic coated (PVC)
- Galvanized steel for corrosion resistance
- Temperature range -25 degrees Fahrenheit to +160 degrees Fahrenheit

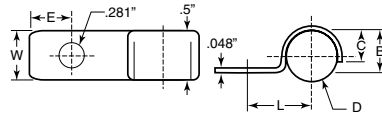


HOSE & PIPE CLAMPS

Loop Clamps HSN Series



- Stainless steel 1/2" wide
- Type 301 or 304



| Item No. | Size | D | L | E | B | C | W | Pack Qty. |
|----------|------|------|------|------|------|------|-----|-----------|
| ZS-566 | 1/4 | .250 | .500 | .250 | .250 | .188 | 1/2 | 1 |
| ZS-568 | 5/16 | .312 | .531 | .312 | .312 | .218 | 5/8 | 1 |
| ZS-570 | 3/8 | .375 | .562 | .312 | .375 | .281 | 3/4 | 1 |
| ZS-572 | 1/2 | .500 | .687 | .312 | .500 | .343 | 3/4 | 1 |
| ZS-574 | 5/8 | .562 | .750 | .312 | .562 | .437 | 3/4 | 1 |
| ZS-576 | 3/4 | .625 | .812 | .312 | .625 | .406 | 3/4 | 1 |
| ZS-578 | 1 | .750 | .875 | .312 | .750 | .468 | 3/4 | 1 |

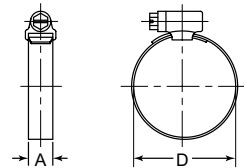
MHC Series Mini Worm Gear Hose Clamps

Specifications:

- Band and Housing: Stainless steel
- Screw: 1/4 inch hex-head. Plated carbon steel

Features:

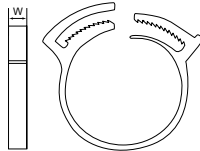
- To be used on small hose applications
- Low profile housing and thin band make them easier to install or remove in confined areas



| Item No. | SAE Size | Diameter Range D | | A (In) | Pack Qty. | Bulk Pack Qty. |
|----------|----------|------------------|----------|--------|-----------|----------------|
| | | Min (In) | Max (In) | | | |
| MHC04A | 4 | 0.250 | 0.625 | 0.312 | 1 | 100 |
| MHC05A | 5 | 0.250 | 0.687 | 0.312 | 1 | 100 |
| MHC06A | 6 | 0.312 | 0.875 | 0.312 | 1 | 100 |
| MHC08A | 8 | 0.375 | 1.000 | 0.312 | 1 | 100 |
| MHC10A | 10 | 0.375 | 1.062 | 0.312 | 1 | 100 |
| MHC12A | 12 | 0.500 | 1.250 | 0.312 | 1 | 50 |
| MHC16A | 16 | 0.500 | 1.500 | 0.312 | 1 | 50 |
| MHC20A | 20 | 0.750 | 1.750 | 0.312 | 1 | 50 |

| Item No. | SAE Size | Diameter Range D | | A (In) | Pack Qty. | Bulk Pack Qty. |
|----------|----------|------------------|----------|--------|-----------|----------------|
| | | Min (In) | Max (In) | | | |
| MHC24A | 24 | 1.000 | 2.000 | 0.312 | 1 | 50 |
| MHC28A | 28 | 1.250 | 2.250 | 0.312 | 1 | 20 |
| MHC30A | 30 | 1.375 | 2.375 | 0.312 | 1 | 25 |
| MHC32A | 32 | 1.500 | 2.500 | 0.312 | 1 | 25 |
| MHC36A | 36 | 1.750 | 2.750 | 0.312 | 1 | 25 |
| MHC44A | 44 | 2.250 | 3.250 | 0.312 | 1 | 20 |
| MHC48A | 48 | 2.500 | 3.500 | 0.312 | 1 | 20 |

THC & SHC Series Quick Assemble Hose Clamps



Specifications:

- Material: THC Series - UL94V-2 Nylon 6/6
SHC Series - UL94 HB Nylon 6/6
- Color: THC Series: Black
SHC Series: White

Features:

- Quick and easy assembly or removal
- Adjustable locking range to fit various diameters
- Excellent for securing the ends of textile covers to the hose assembly

| Item No. | Bundle Range | | W | | Pack Qty. | Bulk Pack Qty. |
|----------|---------------|-------------|-------|-----|-----------|----------------|
| | In | mm | In | mm | | |
| THC1A | 0.260 - 0.315 | 6.6 - 8.0 | 0.197 | 5.0 | 1 | 100 |
| THC2A | 0.315 - 0.362 | 8.0 - 9.2 | 0.197 | 5.0 | 1 | 100 |
| SHC-23 | 0.359 - 0.390 | 9.1 - 9.9 | 0.220 | 5.6 | 1 | 100 |
| THC3A | 0.362 - 0.413 | 9.2 - 10.5 | 0.197 | 5.0 | 1 | 100 |
| SHC-26 | 0.390 - 0.468 | 9.9 - 11.9 | 0.220 | 5.6 | 1 | 100 |
| THC4A | 0.413 - 0.472 | 10.5 - 12.0 | 0.236 | 6.0 | 1 | 100 |
| SHC-30 | 0.468 - 0.531 | 11.9 - 13.5 | 0.220 | 5.6 | 1 | 100 |
| THC6A | 0.504 - 0.591 | 12.8 - 15.0 | 0.276 | 7.0 | 1 | 100 |
| SHC-32 | 0.531 - 0.593 | 13.5 - 15.1 | 0.220 | 5.6 | 1 | 100 |
| THC7A | 0.591 - 0.677 | 15.0 - 17.2 | 0.276 | 7.0 | 1 | 100 |
| SHC-38 | 0.593 - 0.674 | 15.1 - 16.7 | 0.220 | 5.6 | 1 | 100 |
| THC8A | 0.670 - 0.728 | 17.0 - 18.5 | 0.276 | 7.0 | 1 | 100 |
| SHC-44 | 0.687 - 0.812 | 17.5 - 20.6 | 0.220 | 5.6 | 1 | 100 |
| THC9A | 0.717 - 0.807 | 18.2 - 20.5 | 0.276 | 7.0 | 1 | 100 |
| SHC-50 | 0.750 - 0.875 | 19.1 - 22.2 | 0.220 | 5.6 | 1 | 100 |
| THC10A | 0.807 - 0.906 | 20.5 - 23.0 | 0.276 | 7.0 | 1 | 100 |
| THC11A | 0.866 - 0.984 | 22.0 - 25.0 | 0.276 | 7.0 | 1 | 100 |
| SHC-56 | 0.875 - 1.000 | 22.2 - 25.4 | 0.220 | 5.6 | 1 | 100 |
| SHC-62 | 0.953 - 1.093 | 24.2 - 27.8 | 0.310 | 7.9 | 1 | 100 |
| THC12A | 0.984 - 1.102 | 25.0 - 28.0 | 0.276 | 7.0 | 1 | 100 |

| Item No. | Bundle Range | | W | | Pack Qty. | Bulk Pack Qty. |
|----------|---------------|-------------|-------|------|-----------|----------------|
| | In | mm | In | mm | | |
| THC13A | 1.063 - 1.181 | 27.0 - 30.0 | 0.295 | 7.5 | 1 | 100 |
| SHC-68 | 1.093 - 1.187 | 26.2 - 30.2 | 0.310 | 7.9 | 1 | 100 |
| THC14A | 1.161 - 1.280 | 29.5 - 32.5 | 0.295 | 7.5 | 1 | 100 |
| THC15A | 1.280 - 1.398 | 32.5 - 35.5 | 0.315 | 8.00 | 1 | 100 |
| SHC-80 | 1.250 - 1.437 | 31.8 - 36.5 | 0.310 | 7.9 | 1 | 100 |
| THC16A | 1.378 - 1.516 | 35.0 - 38.5 | 0.315 | 8.0 | 1 | 50 |
| SHC-92 | 1.406 - 1.625 | 35.7 - 41.3 | 0.360 | 9.1 | 1 | 100 |
| THC17A | 1.496 - 1.634 | 38.0 - 41.5 | 0.315 | 8.0 | 1 | 50 |
| THC18A | 1.614 - 1.752 | 41.0 - 44.5 | 0.315 | 8.0 | 1 | 50 |
| THC19A | 1.732 - 1.870 | 44.0 - 47.5 | 0.315 | 8.0 | 1 | 50 |
| THC20A | 1.850 - 1.988 | 47.0 - 50.5 | 0.315 | 8.0 | 1 | 50 |
| THC21A | 1.969 - 2.106 | 50.0 - 53.5 | 0.315 | 8.0 | 1 | 50 |
| THC22A | 2.087 - 2.244 | 53.0 - 57.0 | 0.315 | 8.0 | 1 | 50 |
| SHC-134 | 2.125 - 2.375 | 54.0 - 60.3 | 0.400 | 10.2 | 1 | 100 |
| THC23A | 2.224 - 2.382 | 56.5 - 60.5 | 0.315 | 8.0 | 1 | 50 |
| THC24A | 2.362 - 2.559 | 60.0 - 65.0 | 0.315 | 8.0 | 1 | 50 |
| THC25A | 2.598 - 2.756 | 66.0 - 70.0 | 0.315 | 8.0 | 1 | 50 |
| THC26A | 2.756 - 2.953 | 70.0 - 75.0 | 0.315 | 8.0 | 1 | 50 |
| THC27A | 2.992 - 3.150 | 76.0 - 80.0 | 0.315 | 8.0 | 1 | 50 |
| THC28A | 3.150 - 3.346 | 80.0 - 85.0 | 0.315 | 8.0 | 1 | 50 |



WHC
Wire Harness Clamp

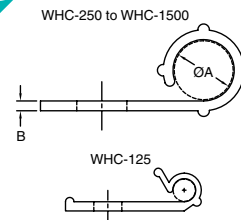
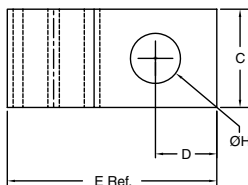


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: See Table

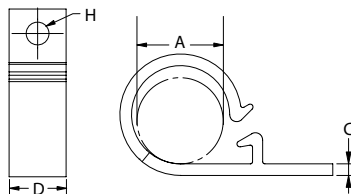
Features:

- Cables can be removed for wiring changes or replacements



| Item No. | | Approval | A Holding Ø | | H Hole Ø | | C | | B | | D | | E Ref. | | Bulk Pack Qty. |
|-------------|---------------|----------|-------------|------|----------|-----|-------|------|-------|-----|-------|-----|--------|------|----------------|
| Natural | Black | | In | mm | In | mm | In | mm | In | mm | In | mm | In | mm | |
| WHC-125-01 | WHC-125-01BK | RU | 0.125 | 3.2 | 0.156 | 4 | 0.330 | 8.4 | 0.050 | 1.3 | 0.230 | 5.8 | 0.750 | 19.1 | 1000 |
| WHC-250-01 | WHC-250-01BK | RU | 0.250 | 6.4 | 0.204 | 5.2 | 0.400 | 10.2 | 0.040 | 1 | 0.250 | 6.4 | 0.830 | 21.1 | 1000 |
| WHC-375-01 | WHC-375-01BK | RU | 0.375 | 9.5 | 0.204 | 5.2 | 0.400 | 10.2 | 0.050 | 1.3 | 0.190 | 4.8 | 0.830 | 21.1 | 1000 |
| WHC-500-01 | WHC-500-01BK | RU | 0.500 | 12.7 | 0.204 | 5.2 | 0.400 | 10.2 | 0.070 | 1.8 | 0.250 | 6.4 | 1.156 | 29.4 | 1000 |
| WHC-625-01 | WHC-625-01BK | RU | 0.625 | 15.9 | 0.204 | 5.2 | 0.500 | 12.7 | 0.080 | 2 | 0.190 | 4.8 | 1.125 | 28.6 | 1000 |
| WHC-750-01 | WHC-750-01BK | RU | 0.750 | 19.1 | 0.204 | 5.2 | 0.500 | 12.7 | 0.090 | 2.2 | 0.190 | 4.8 | 1.281 | 32.5 | 1000 |
| WHC-1000-01 | WHC-1000-01BK | RU | 1.000 | 25.4 | 0.204 | 5.2 | 0.500 | 12.7 | 0.090 | 2.2 | 0.190 | 4.8 | 1.531 | 38.9 | 500 |
| WHC-1500-01 | WHC-1500-01BK | RU | 1.500 | 38.1 | 0.204 | 5.2 | 0.500 | 12.7 | 0.100 | 2.5 | 0.190 | 4.8 | 2.125 | 53.9 | 500 |

EXWHC
Wire Harness Clamp



Specifications:

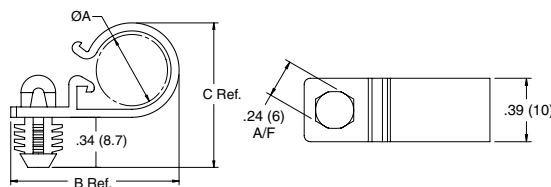
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Cables are easily inserted into clamp and locked in place
- Clamp can be removed for wiring change or replacements

| Item No. | A Holding Ø | | H Mounting Hole Ø | | C | | D Ref. | | Bulk Pack Qty. |
|---------------|-------------|------|-------------------|-----|-------|-----|--------|------|----------------|
| | In | mm | In | mm | In | mm | In | mm | |
| EXWHC2-250-01 | 0.250 | 6.4 | 0.156 | 4.0 | 0.039 | 1.0 | 0.394 | 10.0 | 1000 |
| EXWHC2-500-01 | 0.500 | 12.7 | 0.156 | 4.0 | 0.075 | 1.9 | 0.394 | 10.0 | 1000 |
| EXWHC2-750-01 | 0.708 | 18.0 | 0.156 | 4.0 | 0.075 | 1.9 | 0.500 | 12.7 | 1000 |

BHLWHC
Blind Hole Mounted Clamp



Specifications:

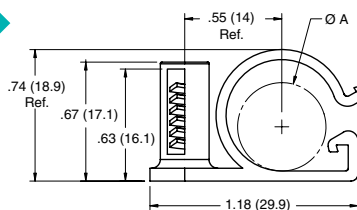
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Easily pushed into mounting hole using a standard 6mm hexagonal socket pressed onto mounting head
- Releasable & reusable for easy wire bundling

| Item No. | A Max Bundle Ø | | Mounting Hole Ø | | B | | C | | Panel Thickness | | Bulk Pack Qty. |
|---------------|----------------|------|-----------------|-----|-------|------|-------|------|-----------------|-----|----------------|
| | In | mm | In | mm | In | mm | In | mm | In | mm | |
| BHLWHC-500-01 | 0.500 | 12.7 | 0.312 | 7.9 | 1.150 | 29.3 | 1.000 | 25.4 | 0.250 | 6.4 | 1000 |
| BHLWHC-750-01 | 0.750 | 19.1 | 0.312 | 7.9 | 1.440 | 36.5 | 1.340 | 34.1 | 0.250 | 6.4 | 1000 |

SMWHC
Stud Mount Wire Harness Clip



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

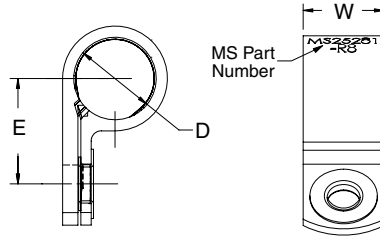
- Installed by pushing clamp onto an exposed screw or stud
- No protrusion under the chassis
- Fits several different threads; M4, M5, #8, or #10

| Item No. | A Holding Ø | | Mounting Method | Bulk Pack Qty. |
|--------------|-------------|------|---|----------------|
| | In | mm | | |
| SMWHC-500-01 | 0.5 | 12.7 | Push onto a #8, #10, M4 or M5 Screw or Stud | 500 |



CABLE CLAMPS

NM - MS25281 Heavy Duty Support Clamp



Specifications:

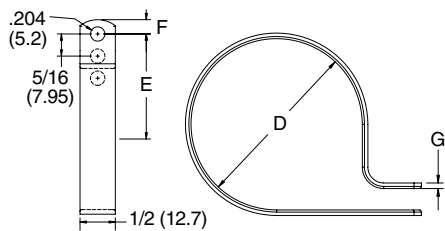
- Material: UL94 V-2 Heat Stabilized Nylon, conforms to MIL-M-20693/ASTM D-4066
- Eyelet: Aluminum, anodized in accordance with MIL-A-8625
- Color: Natural

Features:

- Complies with MS-25281
- Strong & durable part design built for heavy duty cable applications
- NM-R series has a rib running around the inside of the clamp to grip bundle; NM-F series has no rib inside clamp
- NM-R eyelet is crimped to the top leg; the NM-F eyelet's legs protrude all the way through the bottom hole

| Item No. | MS Part Number | Bundle Ø D | | Recommended Mounting Screw | W | | E | | Pack Qty. | Bulk Pack Qty. |
|-----------|----------------|------------|------|----------------------------|-------|------|-------|------|-----------|----------------|
| | | In | mm | | In | mm | In | mm | | |
| NM-3-R3 | MS25281-R3 | 3/16 | 4.8 | #10 or M5 | 0.503 | 12.8 | 0.485 | 12.3 | 1 | 500 |
| NM-4-R4 | MS25281-R4 | 1/4 | 6.4 | #10 or M5 | 0.503 | 12.8 | 0.510 | 13.0 | 1 | 500 |
| NM-5-R5 | MS25281-R5 | 5/16 | 7.9 | #10 or M5 | 0.503 | 12.8 | 0.546 | 13.9 | 1 | 500 |
| NM-6-R6 | MS25281-R6 | 3/8 | 9.5 | #10 or M5 | 0.503 | 12.8 | 0.578 | 14.7 | 1 | 500 |
| NM-7-R7 | MS25281-R7 | 7/16 | 11.1 | #10 or M5 | 0.503 | 12.8 | 0.608 | 15.4 | 1 | 500 |
| NM-8-R8 | MS25281-R8 | 1/2 | 12.7 | #10 or M5 | 0.503 | 12.8 | 0.639 | 16.2 | 1 | 500 |
| NM-9-R9 | MS25281-R9 | 9/16 | 14.3 | #10 or M5 | 0.503 | 12.8 | 0.661 | 16.8 | 1 | 500 |
| NM-10-R10 | MS25281-R10 | 5/8 | 15.9 | #10 or M5 | 0.553 | 14.1 | 0.706 | 17.9 | 1 | 500 |
| NM-11-R11 | MS25281-R11 | 11/16 | 17.5 | #10 or M5 | 0.553 | 14.1 | 0.785 | 19.9 | 1 | 500 |
| NM-12-R12 | MS25281-R12 | 3/4 | 19.1 | #10 or M5 | 0.553 | 14.1 | 0.816 | 20.7 | 1 | 500 |
| NM-13-R13 | MS25281-R13 | 13/16 | 20.6 | #10 or M5 | 0.553 | 14.1 | 0.827 | 21.0 | 1 | 500 |
| NM-14-R14 | MS25281-R14 | 7/8 | 22.2 | #10 or M5 | 0.553 | 14.1 | 0.878 | 22.3 | 1 | 500 |
| NM-16-R16 | MS25281-R16 | 1 | 25.4 | #10 or M5 | 0.553 | 14.1 | 0.941 | 23.9 | 1 | 500 |
| NM-18-R18 | MS25281-R18 | 1-1/8 | 28.6 | #10 or M5 | 0.553 | 14.1 | 0.983 | 25.0 | 1 | 500 |
| NM-20-R20 | MS25281-R20 | 1-1/4 | 31.8 | #10 or M5 | 0.553 | 14.1 | 1.006 | 27.1 | 1 | 100 |
| NM-22-R22 | MS25281-R22 | 1-3/8 | 34.9 | #10 or M5 | 0.553 | 14.1 | 1.110 | 28.2 | 1 | 100 |
| NM-24-R24 | MS25281-R24 | 1-1/2 | 38.1 | #10 or M5 | 0.553 | 14.1 | 1.170 | 29.7 | 1 | 100 |
| NM-26-R26 | MS25281-R26 | 1-5/8 | 41.3 | #10 or M5 | 0.553 | 14.1 | 1.250 | 31.8 | 1 | 100 |
| NM-28-R28 | MS25281-R28 | 1-3/4 | 44.5 | #10 or M5 | 0.553 | 14.1 | 1.300 | 33.0 | 1 | 100 |
| NM-3-F3 | MS25281-F3 | 3/16 | 4.8 | #10 or M5 | 0.500 | 12.7 | 0.498 | 12.6 | 1 | 500 |
| NM-4-F4 | MS25281-F4 | 1/4 | 6.4 | #10 or M5 | 0.500 | 12.7 | 0.529 | 13.4 | 1 | 500 |
| NM-5-F5 | MS25281-F5 | 5/16 | 7.9 | #10 or M5 | 0.500 | 12.7 | 0.560 | 14.2 | 1 | 500 |
| NM-6-F6 | MS25281-F6 | 3/8 | 9.5 | #10 or M5 | 0.500 | 12.7 | 0.592 | 15.0 | 1 | 500 |
| NM-7-F7 | MS25281-F7 | 7/16 | 11.1 | #10 or M5 | 0.500 | 12.7 | 0.623 | 15.8 | 1 | 500 |
| NM-8-F8 | MS25281-F8 | 1/2 | 12.7 | #10 or M5 | 0.500 | 12.7 | 0.654 | 16.6 | 1 | 500 |
| NM-10-F10 | MS25281-F10 | 5/8 | 15.9 | #10 or M5 | 0.600 | 15.2 | 0.783 | 19.9 | 1 | 500 |
| NM-13-F13 | MS25281-F13 | 13/16 | 20.6 | #10 or M5 | 0.600 | 15.2 | 0.877 | 22.3 | 1 | 500 |

NB-3 Adjustable Cable Clamp



Specifications:

- Material: See Table
- Color: See Table

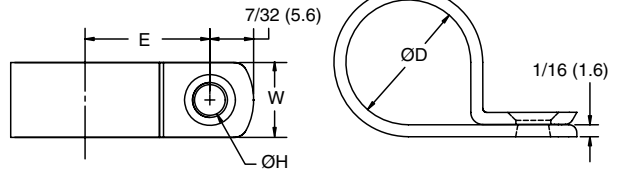
Features:

- Adjustable design allows you to bundle multiple diameters of wires & cables while securing in place
- Clamp down and screw clamp to chassis to secure

| Item No. | | | Bundle Ø D | | | | | | E Ref. | | F | | G | | Bulk Pack Qty. |
|--------------------|----------|--------------------|-------------|------|-------------|------|--------------|------|--------|------|-------|-----|-------|-----|----------------|
| UL94 V-2 Nylon 6/6 | | UL94 V-0 Nylon 6/6 | Inside Hole | | Center Hole | | Outside Hole | | In | mm | In | mm | In | mm | |
| Natural | Black | Natural | In | mm | In | mm | In | mm | | | | | | | |
| N-20B | N-20B-BK | N-20B-19 | 1 | 25.4 | 1-1/8 | 28.6 | 1.2 | 30.2 | 0.906 | 23.0 | 0.219 | 5.6 | 0.063 | 1.6 | 500 |
| N-24B | N-24B-BK | N-24B-19 | 1-1/4 | 31.8 | 1-3/8 | 34.9 | 1-15/32 | 37.3 | 1.031 | 26.2 | 0.219 | 5.6 | 0.063 | 1.6 | 500 |
| N-32B | N-32B-BK | N-32B-19 | 1-3/4 | 44.5 | 1-7/8 | 47.6 | 2 | 50.8 | 1.453 | 36.9 | 0.203 | 5.2 | 0.065 | 1.7 | 500 |



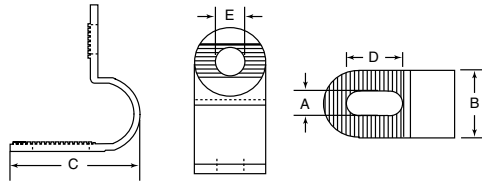
N / NB Cable Clamp



- Specifications:**
- Material: Nylon 6/6
 - Color: Refer to chart
- Features:**
- Designed to secure wires and cables in place
 - Clamp down and screw clamp to chassis to secure

| Item No. | | | D Holding Ø | | W | | H Hole Ø | | E Ref. | | Bulk Pack Qty. |
|------------------|----------------|------------------|-------------|------|-------|------|----------|-----|--------|------|----------------|
| Natural UL94 V-2 | Black UL94 V-2 | Natural UL94 V-0 | In | mm | In | mm | In | mm | In | mm | |
| N-1 | N-1-BK | N-1-19 | 0.063 | 1.6 | 0.375 | 9.5 | 0.125 | 3.2 | 0.270 | 6.9 | 1000 |
| N-2 | N-2-BK | N-2-19 | 0.125 | 3.2 | 0.375 | 9.5 | 0.172 | 4.4 | 0.328 | 8.3 | 1000 |
| CCL001A | — | — | 0.125 | 3.2 | 0.377 | 9.6 | 0.188 | 4.8 | 0.374 | 9.5 | 100 |
| N-2B | N-2B-BK | N-2B-19 | 0.125 | 3.2 | 0.500 | 12.7 | 0.204 | 5.2 | 0.328 | 8.3 | 1000 |
| N-3 | N-3-BK | N-3-19 | 0.188 | 4.7 | 0.375 | 9.5 | 0.172 | 4.4 | 0.391 | 9.9 | 1000 |
| CCL002A | — | — | 0.188 | 4.7 | 0.377 | 9.6 | 0.188 | 4.7 | 0.413 | 10.5 | 100 |
| N-3B | N-3B-BK | N-3B-19 | 0.188 | 4.7 | 0.500 | 12.7 | 0.204 | 5.2 | 0.391 | 9.9 | 1000 |
| N-4 | N-4-BK | N-4-19 | 0.250 | 6.4 | 0.375 | 9.5 | 0.172 | 4.4 | 0.422 | 10.7 | 1000 |
| CCL003A | — | — | 0.250 | 6.4 | 0.393 | 10.0 | 0.181 | 4.6 | 0.394 | 10.0 | 100 |
| N-4B | N-4B-BK | N-4B-19 | 0.250 | 6.4 | 0.500 | 12.7 | 0.204 | 5.2 | 0.422 | 10.7 | 1000 |
| N-5 | N-5-BK | N-5-19 | 0.313 | 7.9 | 0.375 | 9.5 | 0.172 | 4.4 | 0.453 | 11.5 | 1000 |
| CCL004A | — | — | 0.313 | 7.9 | 0.393 | 10.0 | 0.181 | 4.6 | 0.472 | 12.0 | 100 |
| N-5B | N-5B-BK | N-5B-19 | 0.313 | 7.9 | 0.500 | 12.7 | 0.204 | 5.2 | 0.453 | 11.5 | 1000 |
| N-6 | N-6-BK | N-6-19 | 0.375 | 9.5 | 0.375 | 9.5 | 0.172 | 4.4 | 0.484 | 12.3 | 1000 |
| CCL005A | — | — | 0.375 | 9.5 | 0.472 | 12.0 | 0.181 | 4.6 | 0.492 | 12.5 | 100 |
| N-6B | N-6B-BK | N-6B-19 | 0.375 | 9.5 | 0.500 | 12.7 | 0.204 | 5.2 | 0.484 | 12.3 | 1000 |
| N-7 | N-7-BK | N-7-19 | 0.438 | 11.1 | 0.375 | 9.5 | 0.172 | 4.4 | 0.531 | 13.5 | 1000 |
| N-7B | N-7B-BK | N-7B-19 | 0.438 | 11.1 | 0.500 | 12.7 | 0.204 | 5.2 | 0.531 | 13.5 | 1000 |
| N-8 | N-8-BK | N-8-19 | 0.500 | 12.7 | 0.375 | 9.5 | 0.172 | 4.4 | 0.563 | 14.3 | 1000 |
| CCL006A | — | — | 0.500 | 12.7 | 0.472 | 12.0 | 0.196 | 5.0 | 0.598 | 15.2 | 100 |
| N-8B | N-8B-BK | N-8B-19 | 0.500 | 12.7 | 0.500 | 12.7 | 0.204 | 5.2 | 0.563 | 14.3 | 1000 |
| N-9B | N-9B-BK | N-9B-19 | 0.563 | 14.3 | 0.500 | 12.7 | 0.204 | 5.2 | 0.594 | 15.0 | 1000 |
| CCL007A | — | — | 0.625 | 15.9 | 0.472 | 12.0 | 0.181 | 4.6 | 0.717 | 18.8 | 100 |
| N-10B | N-10B-BK | N-10B-19 | 0.625 | 15.9 | 0.500 | 12.7 | 0.204 | 5.2 | 0.625 | 15.9 | 1000 |
| N-11B | N-11B-BK | N-11B-19 | 0.688 | 17.5 | 0.500 | 12.7 | 0.204 | 5.2 | 0.656 | 16.7 | 1000 |
| CCL008A | — | — | 0.750 | 19.1 | 0.463 | 11.8 | 0.181 | 4.6 | 0.717 | 18.8 | 100 |
| N-12B | N-12B-BK | N-12B-19 | 0.750 | 19.1 | 0.500 | 12.7 | 0.204 | 5.2 | 0.766 | 19.4 | 1000 |
| N-14B | N-14B-BK | N-14B-19 | 0.875 | 22.2 | 0.500 | 12.7 | 0.204 | 5.2 | 0.813 | 20.6 | 500 |
| CCL009A | — | — | 1.000 | 25.4 | 0.472 | 12.0 | 0.181 | 4.6 | 0.866 | 22.0 | 100 |
| N-16B | N-16B-BK | N-16B-19 | 1.000 | 25.4 | 0.500 | 12.7 | 0.204 | 5.2 | 0.906 | 23.0 | 500 |
| CCL010A | — | — | 1.062 | 27.0 | 0.472 | 12.0 | 0.181 | 4.6 | 0.945 | 24.0 | 100 |
| N-18B | N-18B-BK | N-18B-19 | 1.125 | 28.6 | 0.500 | 12.7 | 0.204 | 5.2 | 0.969 | 24.6 | 500 |
| CCL011A | — | — | 1.250 | 31.8 | 0.472 | 12.0 | 0.181 | 4.6 | 1.031 | 26.2 | 100 |
| CCL012A | — | — | 1.446 | 36.7 | 0.472 | 12.0 | 0.181 | 4.6 | 1.181 | 30.0 | 100 |

CCLA Adjustable "P" Clamps

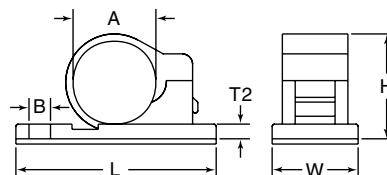


- Specifications:**
- Material: UL94 V-2 Nylon 6/6
 - Color: Natural
- Features:**
- Adjustable sized "P" Style clip designed to secure wires and cables in place
 - Rounded interior edges protect bundles or tubes at insulation
 - To apply, clamp down and screw clamp to chassis to secure



| Item No. | A | | B | | C | | D | | E | | Max Bundle Range | | Bulk Pack Qty. |
|----------|-------|-----|-------|------|-------|------|-------|------|-------|-----|------------------|------------|----------------|
| | In | mm | In | mm | In | mm | In | mm | In | mm | In | mm | |
| CCLA010A | 0.197 | 5.0 | 0.512 | 13.0 | 0.925 | 23.5 | 0.409 | 10.4 | 0.217 | 5.5 | 0.189 - 0.252 | 4.8 - 6.4 | 100 |
| CCLA020A | 0.197 | 5.0 | 0.512 | 13.0 | 1.201 | 30.5 | 0.634 | 16.1 | 0.217 | 5.5 | 0.252 - 0.374 | 6.7 - 9.5 | 100 |
| CCLA030A | 0.197 | 5.0 | 0.512 | 13.0 | 1.575 | 40.0 | 0.815 | 20.7 | 0.217 | 5.5 | 0.374 - 0.563 | 9.5 - 14.3 | 100 |

CCA Self Adhesive Cable Clamps



- Specifications:**
- Material: UL94 V-2 Nylon 6/6
 - Color: Black

- Features:**
- Fixed diameter clamp range
 - Can be mounted with adhesive tape backing or via screw mounting hole

| Item No. | A Ø | | B Ø | | T2 | | L | | W | | H | | Bulk Pack Qty. |
|----------|-------|-------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|----------------|
| | In | mm | In | mm | In | mm | In | mm | In | mm | In | mm | |
| CCA001A | 0.236 | 6.00 | 0.173 | 4.40 | 0.079 | 2.00 | 1.016 | 25.80 | 0.528 | 13.40 | 0.358 | 9.10 | 100 |
| CCA002A | 0.354 | 9.00 | 0.173 | 4.40 | 0.118 | 3.00 | 1.157 | 29.40 | 0.528 | 13.40 | 0.551 | 14.00 | 100 |
| CCA003A | 0.472 | 12.00 | 0.173 | 4.40 | 0.118 | 3.00 | 1.398 | 35.50 | 0.646 | 16.40 | 0.650 | 16.50 | 100 |
| CCA004A | 0.551 | 14.00 | 0.173 | 4.40 | 0.118 | 3.00 | 1.437 | 36.50 | 0.646 | 16.40 | 0.728 | 18.50 | 100 |
| CCA005A | 0.630 | 16.00 | 0.173 | 4.40 | 0.118 | 3.00 | 1.516 | 38.50 | 0.646 | 16.40 | 0.807 | 20.50 | 100 |
| CCA006A | 0.709 | 18.00 | 0.173 | 4.40 | 0.118 | 3.00 | 1.654 | 42.00 | 0.646 | 16.40 | 0.886 | 22.50 | 100 |





CABLE CLAMPS

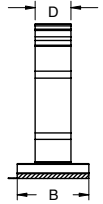
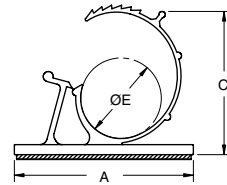
AKKL / CCAA Adhesive Mount Adjustable Clamp

Specifications:

- Material: Nylon 6/6
- Color: See Table

Features:

- Locks securely and easily. Reopens for routing changes
- Ratcheting clip holds bundle securely in place
- Good for high vibration applications. Once closed the clip will not open until tab is released



| Item No. | | Approval | Color | E Bundle Ø Range Ref. | | A | | B | | C Ref. | | D | | Bulk Pack Qty. |
|----------------|----------------|----------|---------|-----------------------|-------------|-------|------|-------|------|--------|------|-------|------|----------------|
| UL94 V-2 | UL94 V-0 | | | In | mm | In | mm | In | mm | In | mm | In | mm | |
| AKKL-2140A-RT | AKKL-2140A-19 | UL | Natural | 0.215 - 0.258 | 5.5 - 6.5 | 0.850 | 21.6 | 0.650 | 16.5 | 0.708 | 18 | 0.390 | 10 | 100 |
| AKKL-3140A-RT | AKKL-3140A-19 | UL | Natural | 0.312 - 0.406 | 7.9 - 10.3 | 1.000 | 25.4 | 0.750 | 19.1 | 0.866 | 22 | 0.400 | 10.2 | 100 |
| CCAA001A | — | — | Black | 0.312 - 0.406 | 7.9 - 10.3 | 1.000 | 25.4 | 0.750 | 19.1 | 0.874 | 22.4 | 0.400 | 10.2 | 100 |
| CCAA002A | — | — | Black | 0.394 - 0.492 | 10.1 - 12.5 | 1.250 | 31.8 | 0.750 | 19.1 | 1.095 | 27.8 | 0.400 | 10.2 | 100 |
| AKKL-4756A-RT | AKKL-4756A-19 | UL | Natural | 0.469 - 0.562 | 11.9 - 14.3 | 1.250 | 31.8 | 0.750 | 19.1 | 1.090 | 27.7 | 0.400 | 10.2 | 100 |
| CCAA003A | — | — | Black | 0.496 - 0.606 | 12.6 - 15.4 | 1.500 | 38.1 | 0.750 | 19.1 | 1.250 | 31.8 | 0.500 | 12.7 | 100 |
| AKKL-5775A-RT | AKKL-5775A-19 | UL | Natural | 0.578 - 0.750 | 14.7 - 19.1 | 1.500 | 38.1 | 0.750 | 19.1 | 1.250 | 31.8 | 0.500 | 12.7 | 100 |
| CCAA004A | — | — | Black | 0.650 - 0.791 | 15.5 - 20.1 | 2.000 | 50.8 | 1.000 | 25.4 | 1.750 | 44.5 | 0.500 | 12.7 | 100 |
| AKKL-8710A-RT | AKKL-8710A-19 | UL | Natural | 0.875 - 1.000 | 22.2 - 25.4 | 2.000 | 50.8 | 1.000 | 25.4 | 1.750 | 44.5 | 0.500 | 12.7 | 100 |
| CCAA005A | — | — | Black | 0.875 - 1.000 | 22.2 - 25.4 | 2.000 | 50.8 | 1.000 | 25.4 | 1.750 | 44.5 | 0.500 | 12.7 | 100 |
| AKKL-10112A-RT | AKKL-10112A-19 | — | Natural | 1.000 - 1.250 | 25.4 - 31.7 | 2.500 | 63.5 | 1.000 | 25.4 | 2.000 | 50.8 | 0.500 | 12.7 | 100 |

AKKSL Side Lock Adhesive Mount Adjustable Clamp

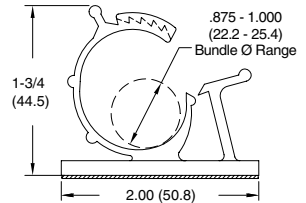
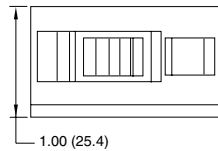


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Side locks on top of clamp prevent clip from sliding open
- Ratcheting clip holds bundle securely in place



| Item No. | Approval | Bulk Pack Qty. |
|----------------|----------|----------------|
| AKKSL-8710A-RT | UL | 100 |

PAKKL Snap In Adjustable Clip



Specifications:

- Material: Nylon 6/6
- Color: Natural

Features:

- Gathers and routes cables and wires
- Adjusts to diameter needed to bundle
- Push mount design allows for fast installation

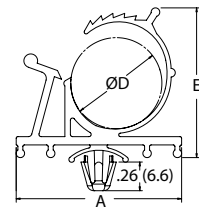
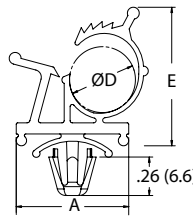


Figure 1

Figure 2



| Item No. | | Figure | A | | Holding Ø D | | E Ref. | | Mounting Hole Ø | | Panel Thickness | | Depth | | Bulk Pack Qty. |
|---------------|---------------|--------|-------|------|---------------|-------------|--------|------|-----------------|-----|-----------------|-----------|-------|------|----------------|
| UL94 V-2 | UL94 V-0 | | In | mm | In | mm | In | mm | In | mm | In | mm | In | mm | |
| PAKKL-3140-01 | PAKKL-3140-19 | 1 | 0.750 | 19.1 | 0.310 - 0.400 | 7.9 - 10.2 | 0.940 | 23.8 | 0.250 | 6.4 | 0.030 - 0.060 | 0.8 - 1.5 | 0.350 | 8.9 | 100 |
| PAKKL-4756-01 | PAKKL-4756-19 | 1 | 1.240 | 31.5 | 0.469 - 0.563 | 11.9 - 14.3 | 1.170 | 29.8 | 0.250 | 6.4 | 0.030 - 0.060 | 0.8 - 1.5 | 0.620 | 15.7 | 100 |
| PAKKL-5775-01 | PAKKL-5775-19 | 2 | 1.500 | 38.1 | 0.578 - 0.750 | 14.7 - 19.1 | 1.360 | 34.5 | 0.250 | 6.4 | 0.030 - 0.060 | 0.8 - 1.5 | 0.750 | 19.1 | 100 |

PKKL Plug In Locking Clamp

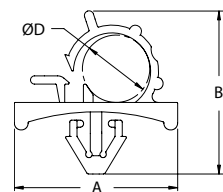
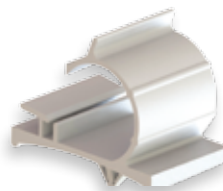


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Part can be opened and closed multiple times for adding or removing wires
- Large contoured base assures stable mounting



| Item No. | A | | B | | Holding Ø D | | Mounting Hole Ø | | Panel Thickness | | Depth | | Bulk Pack Qty. |
|----------|-------|------|-------|------|-------------|------|-----------------|-----|-----------------|-----------|--------|------|----------------|
| | In | mm | In | mm | In | mm | In | mm | In | mm | In | mm | |
| PKKL-3 | 1.020 | 25.9 | 0.921 | 23.4 | 0.374 | 9.5 | 0.256 | 6.5 | 0.031 - 0.062 | 0.8 - 1.6 | 0.670 | 17.0 | 200 |
| PKKL-3S | 0.830 | 21.1 | 0.828 | 21.0 | 0.307 | 7.8 | 0.256 | 6.5 | 0.031 - 0.062 | 0.8 - 1.6 | 0.750 | 19.1 | 200 |
| PKKL-4 | 1.190 | 30.3 | 1.260 | 32.0 | 0.532 | 13.5 | 0.256 | 6.5 | 0.031 - 0.062 | 0.8 - 1.6 | 10.760 | 19.4 | 100 |



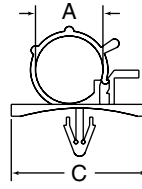
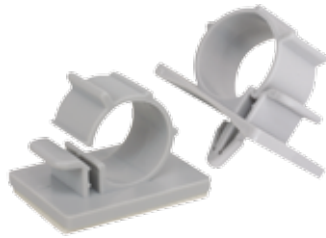
CCP / CCA
Push Mount & Adhesive Clamp

Specifications:

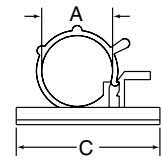
- Material: UL94 V-2 Nylon 6/6
- Color: Grey

Features:

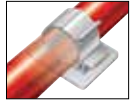
- Two-stage lock design to accommodate different cable sizes in a single clamp
- Easy to reopen with thumb tab release
- Available in two styles: CCP for push mount into pre-drilled hole and CCA with a self adhesive backing



CCP Push Mount



CCA Adhesive



| Item No. | A Bundle Ø Range | | B | | C | | Mounting Hole Ø | | Panel Thickness | | Bulk Pack Qty. | |
|----------|------------------|---------------|-------------|-------|-------|-------|-----------------|-------|-----------------|---------------|----------------|-----|
| | Push Mount | Adhesive | In | mm | In | mm | In | mm | In | mm | | |
| CCP001A | CCA007A | 0.230 - 0.280 | 6.0 - 7.0 | 0.787 | 20.00 | 0.984 | 25.00 | 0.187 | 4.80 | 0.070 - 0.110 | 1.8 - 2.8 | 100 |
| CCP002A | CCA008A | 0.280 - 0.310 | 7.0 - 8.0 | 0.787 | 20.00 | 0.984 | 25.00 | 0.187 | 4.80 | 0.070 - 0.110 | 1.8 - 2.8 | 100 |
| CCP003A | CCA009A | 0.350 - 0.390 | 9.0 - 10.0 | 0.984 | 25.00 | 1.181 | 30.00 | 0.187 | 4.80 | 0.070 - 0.110 | 1.8 - 2.8 | 100 |
| CCP004A | CCA010A | 0.470 - 0.550 | 12.0 - 14.0 | 0.984 | 25.00 | 1.181 | 30.00 | 0.187 | 4.80 | 0.070 - 0.110 | 1.8 - 2.8 | 100 |
| CCP005A | CCA011A | 0.620 - 0.710 | 16.0 - 18.0 | 0.984 | 25.00 | 1.181 | 30.00 | 0.187 | 4.80 | 0.070 - 0.110 | 1.8 - 2.8 | 100 |

WAC
Webbed Adjustable Clip

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Locks securely and easily. Reopens for routing changes
- Adjustable, ratcheting clip holds bundle securely in place
- Spring in the top of the clamp adds additional tension to grip the bundle
- Finger grip eases installation
- Cupped base adds stability to the mounting and covers the hole completely

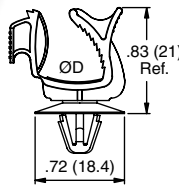


Figure 1

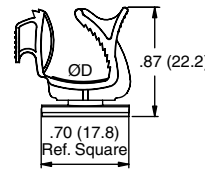


Figure 2



| Item No. | D Bundle Ø | | Mounting Hole Ø | | Panel Thickness | | Figure | Bulk Pack Qty. |
|--------------|------------|-----------|-----------------|-----------|-----------------|-----------|--------|----------------|
| | In | mm | In | mm | In | mm | | |
| WAC1-01 | .12 - .34 | 3.0 - 8.5 | .157 - .189 | 4.0 - 4.8 | .019 - .063 | 0.5 - 1.6 | 1 | 1000 |
| WAC2-01 | .12 - .34 | 3.0 - 8.5 | .236 - .267 | 6.0 - 6.8 | .019 - .098 | 0.5 - 2.5 | 1 | 1000 |
| WAC3-01A4-RT | .12 - .34 | 3.0 - 8.5 | Adhesive | Adhesive | Adhesive | Adhesive | 2 | 1000 |

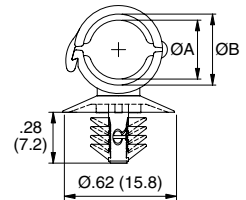
HLCC
Hinged Locking Clamp

Specifications:

- Material: Heat Stabilized UL94 V-2 Nylon 6/6
- Color: Black

Features:

- Securely holds corrugated/convoluted tubing or other bundles
- An internal rib spanning the diameter of the clamp provides a tight grip
- Releasable latch convenient for maintenance
- Fir-tree mount accommodates a large range of panel thicknesses

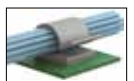
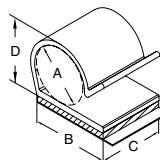
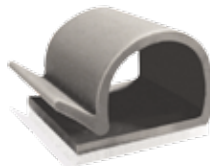


| Item No. | Recommended Corrugated Tube Size | | | | Mounting Hole Ø | | Panel Thickness | | A Ref. | | B Ref. | | Bulk Pack Qty. |
|----------|----------------------------------|-----|------|-----|-----------------|-----------|-----------------|-----------|--------|-----|--------|------|----------------|
| | I.D. | | O.D. | | In | mm | In | mm | In | mm | In | mm | |
| | In | mm | In | mm | | | | | | | | | |
| HLCC-1BK | .20 | 5.0 | .28 | 7.1 | .26 - .28 | 6.5 - 7.0 | .03 - .12 | .08 - 3.0 | .23 | 5.8 | .28 | 7.2 | 1000 |
| HLCC-2BK | .27 | 6.9 | .39 | 9.9 | .26 - .28 | 6.5 - 7.0 | .03 - .12 | .08 - 3.0 | .33 | 8.3 | .39 | 10.0 | 1000 |

KKR
Adhesive Mount Clamp

Specifications:

- Material: UL94 V-0 PVC
- Color: Grey



| Item No. | A Bundle Ø | | B | | C | | Max Capacity D | | Bulk Pack Qty. |
|------------|------------|------|-------|------|-------|------|----------------|------|----------------|
| | In | mm | In | mm | In | mm | In | mm | |
| KKR-5A1-RT | 0.521 | 13.2 | 0.750 | 19.1 | 0.750 | 19.1 | 0.680 | 17.3 | 500 |



CABLE CLAMPS

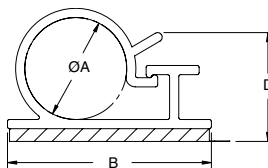
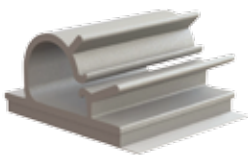
KKL Adhesive Mount Locking Clamp

Specifications:

- Material: UL94 V-0 PVC
- Color: Grey

Features:

- Gathers, routes, and locks cables & wires
- Can be opened and closed multiple times for addition or removal of cables



| Item No. | Holding Capacity A | | B | | Depth | | D | | Bulk Pack Qty. |
|-----------|--------------------|------|-------|------|-------|------|-------|------|----------------|
| | In | mm | In | mm | In | mm | In | mm | |
| KKL-4-RT | 0.250 | 6.4 | 0.750 | 19.1 | 0.750 | 19.1 | 0.375 | 9.5 | 500 |
| KKL-8-RT | 0.500 | 12.7 | 1.000 | 25.4 | 1.000 | 25.4 | 0.844 | 21.4 | 100 |
| KKL-12-RT | 0.750 | 19.1 | 1.000 | 25.4 | 1.000 | 25.4 | 1.000 | 25.4 | 100 |

KKD / KKDL Adhesive Mount Clamp

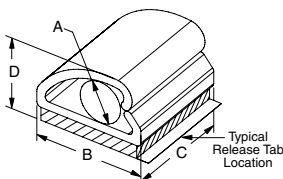


Figure 1

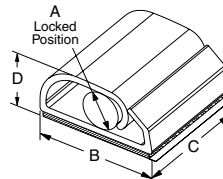


Figure 2



Specifications:

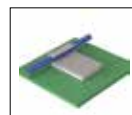
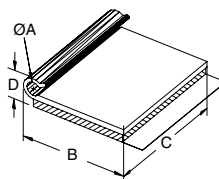
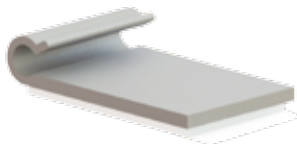
- Material: UL94 V-0 PVC
- Color: Grey

Features:

- To hold wires, cords or cables in place

| Item No. | Figure | Holding Capacity A | | B | | C | | D at Max Capacity Ref. | | Bulk Pack Qty. |
|-----------|--------|--------------------|------|-------|------|-------|------|------------------------|------|----------------|
| | | In | mm | In | mm | In | mm | In | mm | |
| KKDL-4-RT | 2 | 0.125 | 3.2 | 0.500 | 12.7 | 0.500 | 12.7 | 0.280 | 7.1 | 500 |
| KKDL-8-RT | 2 | 0.219 | 5.6 | 0.750 | 19.1 | 0.750 | 19.1 | 0.430 | 10.9 | 100 |
| KKD-4-RT | 1 | 0.250 | 6.4 | 0.500 | 12.7 | 0.500 | 12.7 | 0.400 | 10.2 | 500 |
| KKD-8-RT | 1 | 0.500 | 12.7 | 0.750 | 19.1 | 0.750 | 19.1 | 0.730 | 18.5 | 100 |
| KKD-12-RT | 1 | 0.750 | 19.1 | 1.125 | 28.6 | 1.000 | 25.4 | 1.020 | 25.9 | 100 |
| KKD-16-RT | 1 | 1.000 | 25.4 | 1.500 | 38.1 | 1.250 | 31.8 | 1.300 | 33.0 | 100 |

KKJ Adhesive Mount Clamp

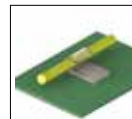
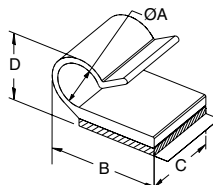


Specifications:

- Material: UL94 V-0 PVC
- Color: Grey

| Item No. | A Bundle Ø | B | | C | | D at Max Capacity Ref. | | Bulk Pack Qty. | |
|----------|------------|-----|--------|------|-------|------------------------|-------|----------------|------|
| | | In | mm | In | mm | In | mm | | |
| KKJ-2-RT | 1/8 | 3.2 | 27/32 | 21.4 | 1 | 25.4 | 1/4 | 6.4 | 1000 |
| KKJ-3-RT | 3/16 | 4.8 | 7/8 | 22.2 | 1-1/4 | 31.8 | 5/16 | 7.9 | 1000 |
| KKJ-4-RT | 1/4 | 6.4 | 29/32 | 23.0 | 1-1/2 | 38.1 | 13/32 | 10.3 | 1000 |
| KKJ-5-RT | 5/16 | 7.9 | 1-7/32 | 31.0 | 1-3/4 | 44.5 | 7/16 | 11.1 | 1000 |
| KKJ-6-RT | 3/8 | 9.5 | 1-9/32 | 32.5 | 2 | 50.8 | 17/32 | 13.5 | 1000 |

MKKJ Mini Adhesive Mount Clamp




Specifications:

- Material: UL94 V-0 PVC
- Color: Clear

Features:


- Clear color hides clamp

| Item No. | Holding Capacity A | | B | | C | | D | | Bulk Pack Qty. |
|-----------|--------------------|-----|-------|------|-------|------|-------|------|----------------|
| | In | mm | In | mm | In | mm | In | mm | |
| MKKJ-2-RT | 0.125 | 3.2 | 0.437 | 11.1 | 0.375 | 9.5 | 0.234 | 6.0 | 1000 |
| MKKJ-3-RT | 0.187 | 4.8 | 0.625 | 15.9 | 0.437 | 11.1 | 0.328 | 8.3 | 1000 |
| MKKJ-4-RT | 0.250 | 6.4 | 0.656 | 16.7 | 0.500 | 12.7 | 0.406 | 10.3 | 1000 |
| MKKJ-5-RT | 0.312 | 7.9 | 0.812 | 20.6 | 0.562 | 14.3 | 0.484 | 12.3 | 1000 |
| MKKJ-6-RT | 0.375 | 9.5 | 0.875 | 22.2 | 0.625 | 15.9 | 0.562 | 14.3 | 1000 |



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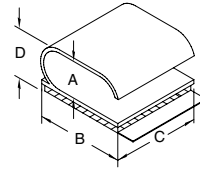
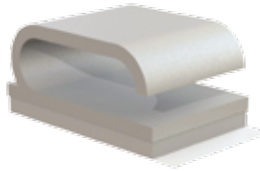
KKF Adhesive Mount Clamp

Specifications:

- Material: UL94 V-0 PVC
- Color: Grey

Features:

- Can hold 3 wire leads, such as air conditioning leads



| Item No. | Holding Capacity A | | B | | C | | Max Capacity D | | Bulk Pack Qty. | | |
|-------------|--------------------|------|-------|-----|-------|------|----------------|------|----------------|-----|-----|
| | In | mm | In | mm | In | mm | In | mm | | | |
| KKF-10X4-RT | 0.562 | 14.3 | 0.230 | 5.2 | 0.750 | 19.1 | 0.750 | 19.1 | 0.359 | 9.1 | 100 |

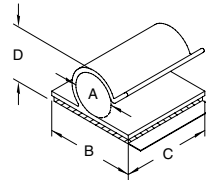
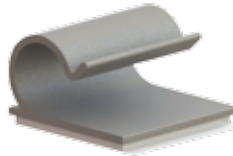
KKC Adhesive Mount Clamp

Specifications:

- Material: UL94 V-0 PVC
- Color: Grey

Features:

- For clamping cable or tubing securely



| Item No. | Holding Capacity A | | B | | C | | D | | Bulk Pack Qty. |
|-----------|--------------------|------|-------|------|-------|------|-------|------|----------------|
| | In | mm | In | mm | In | mm | In | mm | |
| KKC-2-RT | 0.125 | 3.2 | 0.750 | 19.1 | 0.750 | 19.1 | 0.310 | 7.9 | 500 |
| KKC-3-RT | 0.187 | 4.8 | 0.750 | 19.1 | 0.750 | 19.1 | 0.330 | 8.4 | 500 |
| KKC-4-RT | 0.250 | 6.4 | 0.750 | 19.1 | 0.750 | 19.1 | 0.420 | 10.7 | 500 |
| KKC-5-RT | 0.312 | 7.9 | 0.750 | 19.1 | 0.750 | 19.1 | 0.480 | 12.2 | 500 |
| KKC-6-RT | 0.375 | 9.5 | 0.750 | 19.1 | 0.750 | 19.1 | 0.600 | 15.2 | 500 |
| KKC-8-RT | 0.500 | 12.7 | 1.000 | 25.4 | 1.000 | 25.4 | 0.690 | 17.5 | 100 |
| KKC-12-RT | 0.750 | 19.1 | 1.000 | 25.4 | 1.000 | 25.4 | 0.940 | 23.9 | 100 |

UC / HUC Adhesive Mount U Clamp

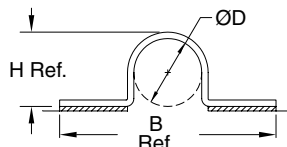


Figure 1

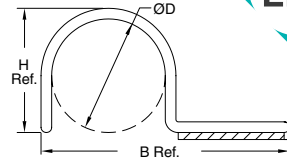


Figure 2



Specifications:

- Material: UL94 V-0 PVC
- Color: Black

| Item No. | Figure | D Holding Capacity | | B Ref. | | H Ref. | | Depth | | Bulk Pack Qty. |
|----------|--------|--------------------|------|--------|------|--------|------|-------|------|----------------|
| | | In | mm | In | mm | In | mm | In | mm | |
| UC-2-RT | 1 | 0.125 | 3.2 | 1.219 | 30.9 | 0.172 | 4.4 | 0.625 | 15.9 | 1000 |
| HUC-2-RT | 2 | 0.125 | 3.2 | 0.718 | 18.3 | 0.172 | 4.4 | 0.625 | 15.9 | 1000 |
| UC-4-RT | 1 | 0.250 | 6.4 | 1.344 | 34.1 | 0.297 | 7.5 | 0.625 | 15.9 | 1000 |
| HUC-4-RT | 2 | 0.250 | 6.4 | 1.343 | 34.1 | 0.297 | 7.5 | 0.625 | 15.9 | 1000 |
| UC-6-RT | 1 | 0.375 | 9.5 | 1.469 | 37.3 | 0.422 | 10.7 | 0.625 | 15.9 | 1000 |
| UC-8-RT | 1 | 0.500 | 12.7 | 1.594 | 40.4 | 0.547 | 13.9 | 0.625 | 15.9 | 1000 |

D Two-Piece Locking Clamp

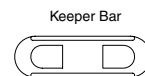
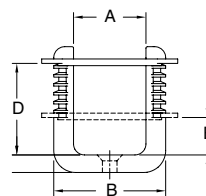


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Mounts with a #8 or M4 flat-head machine screw
- Adjustable holding capacity
- Keeper bar is removable for changes or repairs

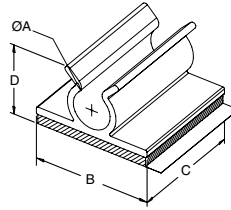


| Item No. | A Ref. | | B Ref. | | D Ref. | | E Ref. | | Bulk Pack Qty. |
|----------|--------|------|--------|------|--------|------|--------|------|----------------|
| | In | mm | In | mm | In | mm | In | mm | |
| D-1 | 0.990 | 25.1 | 1.530 | 38.9 | 1.250 | 31.8 | 0.500 | 12.7 | 100 |
| D-1.5 | 1.457 | 37.0 | 2.175 | 55.3 | 1.650 | 41.9 | 0.660 | 16.8 | 100 |



CABLE CLIPS & CLAMPS

KKU Adhesive Mount Clamp



Specifications:

- Material: UL94 V-0 PVC
- Color: Grey

Features:

- To hold wires, cords, or cables in place

| Item No. | Holding Capacity A | | B | | C | | D Ref. | | Bulk Pack Qty. |
|-----------|--------------------|------|-------|------|-------|------|--------|------|----------------|
| | In | mm | In | mm | In | mm | In | mm | |
| KKU-2-RT | 0.125 | 3.2 | 0.750 | 19.1 | 0.750 | 19.1 | 0.281 | 7.1 | 500 |
| KKU-4-RT | 0.250 | 6.4 | 0.750 | 19.1 | 0.750 | 19.1 | 0.468 | 11.9 | 500 |
| KKU-6-RT | 0.375 | 9.5 | 0.750 | 19.1 | 0.750 | 19.1 | 0.593 | 15.1 | 500 |
| KKU-8-RT | 0.500 | 12.7 | 1.000 | 25.4 | 1.000 | 25.4 | 0.687 | 17.5 | 100 |
| KKU-9-RT | 0.562 | 14.3 | 1.000 | 25.4 | 1.000 | 25.4 | 0.750 | 19.1 | 100 |
| KKU-12-RT | 0.750 | 19.1 | 1.000 | 25.4 | 1.000 | 25.4 | 0.906 | 23.0 | 100 |

HURC / DHURC / HURCBH / HURCS / DHURCS U Clamp

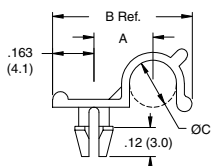


Figure 1

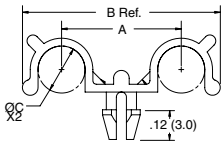


Figure 2

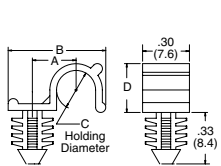


Figure 3

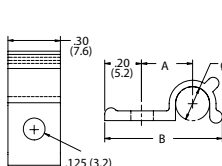


Figure 4

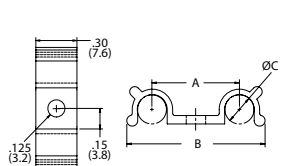


Figure 5



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- For clamping cable or tubing securely

| Item No. | Figure | Holding O.C. | | Mounting Hole O | | Approval | A | | B Ref. | | Panel Thickness | | Bulk Pack Qty. |
|-------------|--------|--------------|-----|-----------------|-----|----------|-------|------|--------|------|-----------------|-----|----------------|
| | | In | mm | In | mm | | In | mm | In | mm | In | mm | |
| HURC-2-01 | 1 | 0.125 | 3.2 | 0.125 | 3.2 | NA | 0.200 | 5.1 | 0.490 | 12.4 | 0.062 | 1.6 | 1000 |
| HURC-3-01 | 1 | 0.187 | 4.8 | 0.125 | 3.2 | NA | 0.240 | 6.1 | 0.560 | 14.2 | 0.062 | 1.6 | 1000 |
| HURC-4-01 | 1 | 0.250 | 6.4 | 0.125 | 3.2 | NA | 0.270 | 6.9 | 0.620 | 15.7 | 0.062 | 1.6 | 1000 |
| HURC1-2-01 | 1 | 0.125 | 3.2 | 0.125 | 3.2 | NA | 0.200 | 5.1 | 0.490 | 12.4 | 0.093 | 2.4 | 1000 |
| HURC1-3-01 | 1 | 0.187 | 4.8 | 0.125 | 3.2 | NA | 0.240 | 6.1 | 0.560 | 14.2 | 0.093 | 2.4 | 1000 |
| HURC1-4-01 | 1 | 0.250 | 6.4 | 0.125 | 3.2 | NA | 0.270 | 6.9 | 0.620 | 15.7 | 0.093 | 2.4 | 1000 |
| DHURC-2-01 | 2 | 0.125 | 3.2 | 0.125 | 3.2 | NA | 0.410 | 10.4 | 0.660 | 16.8 | 0.062 | 1.6 | 1000 |
| DHURC-3-01 | 2 | 0.187 | 4.8 | 0.125 | 3.2 | NA | 0.480 | 12.2 | 0.790 | 20.1 | 0.062 | 1.6 | 1000 |
| DHURC-4-01 | 2 | 0.250 | 6.4 | 0.125 | 3.2 | NA | 0.550 | 14.0 | 0.940 | 23.9 | 0.062 | 1.6 | 1000 |
| HURCS-2-01 | 4 | 0.125 | 3.2 | 0.125 | 3.2 | — | 0.250 | 6.2 | 0.590 | 15.0 | — | — | 1000 |
| HURCS-3-01 | 4 | 0.187 | 4.8 | 0.125 | 3.2 | — | 0.280 | 7.1 | 0.650 | 15.6 | — | — | 1000 |
| HURCS-4-01 | 4 | 0.250 | 6.4 | 0.125 | 3.2 | — | 0.320 | 8.1 | 0.720 | 18.3 | — | — | 1000 |
| DHURCS-2-01 | 5 | 0.125 | 3.2 | 0.125 | 3.2 | — | 0.490 | 12.4 | 0.750 | 19.0 | — | — | 1000 |
| DHURCS-3-01 | 5 | 0.187 | 4.8 | 0.125 | 3.2 | — | 0.560 | 14.2 | 0.890 | 22.6 | — | — | 1000 |
| DHURCS-4-01 | 5 | 0.250 | 6.4 | 0.125 | 3.2 | — | 0.640 | 16.2 | 1.020 | 25.9 | — | — | 1000 |
| HURCBH-2-01 | 3 | 0.125 | 3.2 | 0.250 | 6.4 | — | 0.490 | 12.4 | 0.170 | 4.3 | 0.250 | 6.4 | 1000 |
| HURCBH-3-01 | 3 | 0.187 | 4.8 | 0.250 | 6.4 | — | 0.560 | 14.2 | 0.240 | 6.1 | 0.250 | 6.4 | 1000 |
| HURCBH-4-01 | 3 | 0.250 | 6.4 | 0.250 | 6.4 | — | 0.620 | 15.7 | 0.300 | 7.6 | 0.250 | 6.4 | 1000 |

SRC Split Routing Clamp

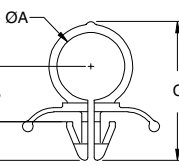


Figure 1

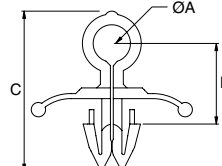


Figure 2



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural
- Mounting Hole .250 (6.4)

Features:

- Gathers and routes cables and wires
- Push mount design allows for fast installation

| Item No. | Approval | Figure | A | | B | | C Ref. | | Panel Thickness | | Bulk Pack Qty. |
|-----------|----------|--------|-------|------|-------|------|--------|------|-----------------|-----------|----------------|
| | | | In | mm | In | mm | In | mm | In | mm | |
| SRC-1-01 | | 2 | 0.197 | 5.0 | 0.443 | 11.2 | 0.878 | 22.3 | 0.079 - 0.118 | 2.0 - 3.0 | 1000 |
| SRC-4-01 | NA | 1 | 0.250 | 6.4 | 0.260 | 6.6 | 0.750 | 19.1 | 0.050 - 0.060 | 1.3 - 1.5 | 1000 |
| SRC-7-01 | NA | 1 | 0.437 | 11.1 | 0.390 | 9.8 | 0.970 | 24.7 | 0.050 - 0.060 | 1.3 - 1.5 | 1000 |
| SRC-8-01 | NA | 1 | 0.500 | 12.7 | 0.430 | 10.8 | 1.040 | 26.5 | 0.050 - 0.060 | 1.3 - 1.5 | 1000 |
| SRC-10-01 | NA | 1 | 0.625 | 15.9 | 0.500 | 12.7 | 1.180 | 29.9 | 0.050 - 0.060 | 1.3 - 1.5 | 1000 |

SRCC Strain Relief Clamp

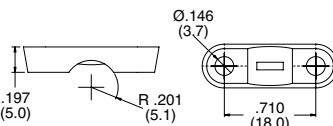


Figure 1

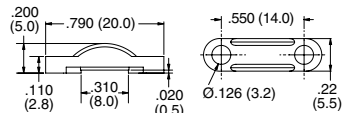


Figure 2

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: See table

Features:

- Grips cable providing slight strain relief
- Securely installed with two screws

| Item No. | Figure | Color | Max Cable Dia. | Mounting Screws | Bulk Pack Qty. |
|----------|--------|-------|----------------|-----------------|----------------|
| SRCC-1 | 1 | Grey | 0.177 | M3 or #6 | 1000 |
| SRCC-2 | 2 | Black | 0.310 | M3 or #4 | 1000 |



**WCK / MWCK
Adhesive Mount Clips**

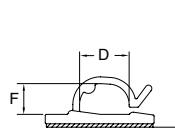


Figure 1

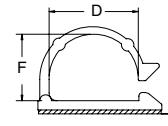
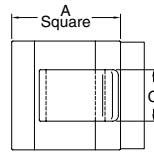
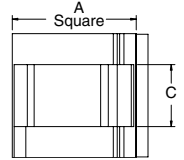


Figure 2



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- To hold wires, cords, or cables in place

| Item No. | Figure | Approval | A | | C | | D | | F | | Bulk Pack Qty. |
|------------------|--------|----------|-------|------|-------|------|-------|------|-------|------|----------------|
| | | | In | mm | In | mm | In | mm | In | mm | |
| WCK-180-01A-RT | 1 | | 0.630 | 16.0 | 0.310 | 7.9 | 0.340 | 8.6 | 0.160 | 7.0 | 1000 |
| WCK-280-01A4-RT | 1 | — | 0.750 | 19.0 | 0.390 | 10.0 | 0.260 | 6.5 | 0.220 | 8.8 | 1000 |
| WCK-460-01A-RT | 1 | | 0.990 | 25.1 | 0.470 | 11.9 | 0.450 | 11.4 | 0.280 | 11.7 | 1000 |
| MWCK-460-01A4-RT | 2 | — | 0.750 | 19.0 | 0.470 | 11.9 | 0.450 | 11.4 | 0.280 | 11.6 | 1000 |
| WCK-720-01A-RT | 2 | — | 1.000 | 25.4 | 0.470 | 11.9 | 0.720 | 18.3 | 0.540 | 17.9 | 1000 |

**WCA
Adhesive Mount Clips**

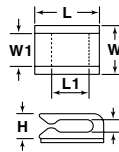


Figure 1

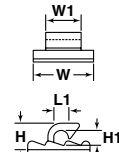


Figure 2

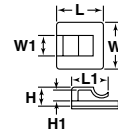


Figure 3

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Self-adhesive wire clip is designed to support lightweight wire bundles when properly applied on any clean, smooth, grease-free surface

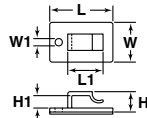


Figure 4

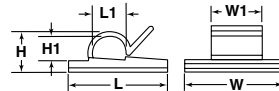


Figure 5

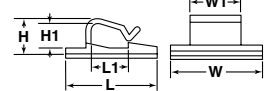


Figure 6

| Item No. | Figure | L | | L1 | | W | | W1 | | H | | H1 | | Bulk Pack Qty. |
|----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|----------------|
| | | In | mm | In | mm | In | mm | In | mm | In | mm | In | mm | |
| WCA001A | 1 | 0.510 | 13.00 | 0.354 | 9.00 | 0.370 | 9.50 | 0.260 | 6.50 | 0.200 | 5.20 | 0.110 | 2.80 | 100 |
| WCA002A | 2 | 0.630 | 16.00 | 0.190 | 4.80 | 0.610 | 15.50 | 0.354 | 9.00 | 0.270 | 6.80 | 0.190 | 4.80 | 100 |
| WCA003A | 3 | 0.630 | 16.00 | 0.490 | 12.50 | 0.630 | 16.00 | 0.354 | 9.00 | 0.340 | 8.70 | 0.150 | 3.70 | 100 |
| WCA004A | 4 | 1.060 | 27.00 | 0.580 | 14.80 | 0.670 | 17.00 | 0.120 | 3.10 | 0.340 | 8.70 | 0.220 | 5.50 | 100 |
| WCA005A | 5 | 0.750 | 19.00 | 0.230 | 5.90 | 0.750 | 19.00 | 0.394 | 10.00 | 0.280 | 7.20 | 0.190 | 4.90 | 100 |
| WCA006A | 1 | 0.630 | 16.00 | 0.470 | 11.90 | 0.620 | 15.80 | 0.354 | 9.00 | 0.354 | 9.00 | 0.230 | 5.80 | 100 |
| WCA007A | 6 | 1.060 | 26.80 | 0.470 | 11.90 | 1.040 | 26.50 | 0.480 | 12.30 | 0.460 | 11.70 | 0.330 | 8.30 | 100 |

**RWS / RWSB
Round Clamp**

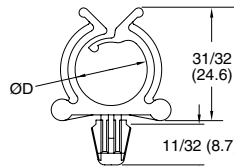


Figure 1

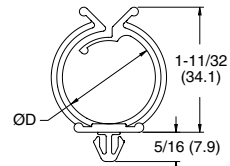


Figure 2

Specifications:

- Material: Nylon 6/6
- Color: Natural

Features:

- Gathers and routes cables & wires
- Push mount design allows for fast installation
- Adhesive base makes installation quick & easy

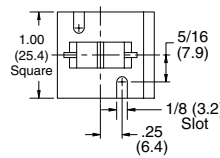


Figure 3

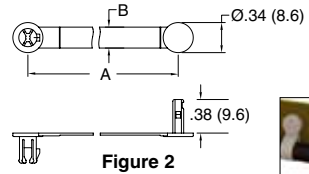
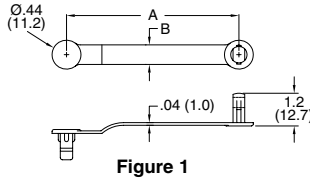


| Item No. | UL94 V-2 | UL94 V-0 | Mounting Method | Approval | Figure | Mounting Hole | | Panel Thickness | | Holding Ø D | | Depth | | Color | Bulk Pack Qty. |
|----------------|-----------|----------|-----------------|----------|--------|---------------|-----|-----------------|-----------|-------------|------|-------|------|---------|----------------|
| | | | | | | in | mm | in | mm | in | mm | in | mm | | |
| RWS-10-01 | RWS-10-19 | — | Snap-In | | 1 | Ø.250 | 6.4 | .030 - .060 | 0.8 - 1.5 | 0.625 | 15.9 | 0.297 | 17.5 | Natural | 1000 |
| RWS-10-01BK | — | — | Snap-In | | 1 | Ø.250 | 6.4 | .030 - .060 | 0.8 - 1.5 | 0.625 | 15.9 | 0.297 | 17.5 | Black | 1000 |
| RWS-16-01 | RWS-16-19 | — | Snap-In | | 2 | .250 Square | 6.4 | .058 - .064 | 1.5 - 1.6 | 1.000 | 25.4 | 0.297 | 17.5 | Natural | 1000 |
| RWS-16-01BK | — | — | Snap-In | | 2 | .250 Square | 6.4 | .058 - .064 | 1.5 - 1.6 | 1.000 | 25.4 | 0.297 | 17.5 | Black | 1000 |
| RWSB-10-01A-RT | — | — | Adhesive | — | 3 | — | — | — | — | 0.625 | 15.9 | 1.000 | 25.4 | Natural | 1000 |
| RWSB-16-01A-RT | — | — | Adhesive | — | 3 | — | — | — | — | 1.000 | 25.4 | 1.000 | 25.4 | Natural | 1000 |
| RWSB-10-01 | — | — | Screw | — | 3 | — | — | — | — | 0.625 | 15.9 | 1.000 | 25.4 | Natural | 1000 |
| RWSB-16-01 | — | — | Screw | — | 3 | — | — | — | — | 1.000 | 25.4 | 1.000 | 25.4 | Natural | 1000 |



CABLE CLIPS & CLAMPS

CH / RSC Snap In Cable Hanger



Specifications:

- Material: See table
- Color: See table

Features:

- Gathers and routes cables & wires
- Push mount design allows for fast installation

| Item No. | | A Ref. | | B | | Max Holding Ø | | Material | Bulk Pack Qty. | |
|----------|-----------|--------|-------|------|-------|---------------|-------|----------|-----------------------|------|
| Natural | Black | In | mm | In | mm | In | mm | | | |
| CH-1-01 | CH-1-01BK | 1 | 1.750 | 44.5 | 0.297 | 7.5 | 0.375 | 9.5 | UL94 V-2 Nylon 6/6 | 1000 |
| CH-2-01 | CH-2-01BK | 1 | 2.625 | 66.7 | 0.297 | 7.5 | 0.625 | 15.9 | UL94 V-2 Nylon 6/6 | 1000 |
| CH-3-01 | CH-3-01BK | 1 | 3.750 | 95.3 | 0.297 | 7.5 | 1.000 | 25.4 | UL94 V-2 Nylon 6/6 | 1000 |
| CH-1-10 | CH-1-10BK | 1 | 1.750 | 44.5 | 0.297 | 7.5 | 0.375 | 9.5 | UL94 HB Polypropylene | 1000 |
| CH-2-10 | CH-2-10BK | 1 | 2.625 | 66.7 | 0.297 | 7.5 | 0.625 | 15.9 | UL94 HB Polypropylene | 1000 |
| CH-3-10 | CH-3-10BK | 1 | 3.750 | 95.3 | 0.297 | 7.5 | 1.000 | 25.4 | UL94 HB Polypropylene | 1000 |
| — | RSC-3-01 | 2 | 1.100 | 28.0 | 0.160 | 4.0 | 0.218 | 5.6 | UL94 V-2 Nylon 6/6 | 1000 |
| — | RSC-4-01 | 2 | 1.300 | 33.0 | 0.240 | 6.0 | 0.250 | 6.4 | UL94 V-2 Nylon 6/6 | 1000 |
| — | RSC-6-01 | 2 | 1.690 | 43.0 | 0.240 | 6.0 | 0.375 | 9.5 | UL94 V-2 Nylon 6/6 | 1000 |
| — | RSC-9-01 | 2 | 2.480 | 63.0 | 0.240 | 6.0 | 0.625 | 15.9 | UL94 V-2 Nylon 6/6 | 1000 |

V Screw Mount Component Clip

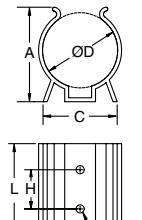
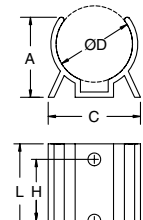
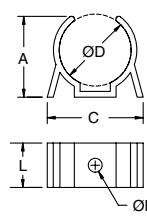
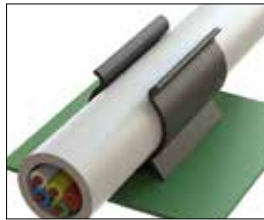


Figure 1

Figure 2

Figure 3

Specifications:

- Material: UL94 V-0 PVC Color: Black

Features:

- Legs prevent shifting and tipping
- Mounts securely with screws or rivets
- Holds parts firmly

| Item No. | D Holding Ø | | F Hole Ø Ref. | | A Ref. | | C Ref. | | H Ref. | | L | | Figure | Bulk Pack Qty. |
|----------|-------------|-------------|---------------|-----|--------|------|--------|------|-----------------------|------|------|------|--------|----------------|
| | In | mm | In | mm | In | mm | In | mm | In | mm | In | mm | | |
| V-1000 | 0.25 | 6.4 | .094 | 2.4 | 0.30 | 7.5 | 0.50 | 12.7 | Single Hole In Center | | 0.50 | 12.7 | 1 | 1000 |
| V-1001 | 0.31 | 7.9 | .094 | 2.4 | 0.36 | 9.1 | 0.50 | 12.7 | Single Hole In Center | | 0.50 | 12.7 | 1 | 1000 |
| V-1002 | 0.38 | 9.5 | .094 | 2.4 | 0.41 | 10.3 | 0.50 | 12.7 | Single Hole In Center | | 0.50 | 12.7 | 1 | 1000 |
| V-1003 | 0.44 | 11.1 | .094 | 2.4 | 0.45 | 11.5 | 0.52 | 13.1 | Single Hole In Center | | 0.50 | 12.7 | 1 | 1000 |
| V-1004 | 0.50 | 12.7 | .094 | 2.4 | 0.50 | 12.7 | 0.66 | 16.7 | Single Hole In Center | | 0.50 | 12.7 | 1 | 1000 |
| V-1005 | 0.56 | 14.3 | .094 | 2.4 | 0.61 | 15.5 | 0.72 | 18.3 | Single Hole In Center | | 0.50 | 12.7 | 1 | 1000 |
| V-1006 | 0.63 | 15.9 | .094 | 2.4 | 0.63 | 15.9 | 0.83 | 21.0 | Single Hole In Center | | 0.50 | 12.7 | 1 | 1000 |
| V-1007 | 0.69 | 17.6 | .156 | 4.0 | 0.63 | 15.9 | 0.84 | 21.0 | Single Hole In Center | | 0.50 | 12.7 | 1 | 1000 |
| V-1008 | 0.75 | 19.7 | .156 | 4.0 | 0.78 | 19.8 | 0.89 | 22.6 | Single Hole In Center | | 0.50 | 12.7 | 1 | 100 |
| V-1009 | 0.88 | 22.2 | .156 | 4.0 | 0.91 | 23.0 | 1.08 | 27.4 | Single Hole In Center | | 0.50 | 12.7 | 1 | 100 |
| V-1010 | 1.00 | 25.4 | .156 | 4.0 | 0.98 | 25.0 | 1.13 | 28.6 | .75 | 19.1 | 1.13 | 28.5 | 2 | 100 |
| V-1011 | 1.38 | 34.9 | .156 | 4.0 | 1.34 | 34.1 | 1.25 | 31.8 | .75 | 19.1 | 1.13 | 28.5 | 2 | 100 |
| V-1024 | 1.50 | 38.1 | .156 | 4.0 | 1.81 | 46.0 | 1.42 | 36.1 | .75 | 19.1 | 1.75 | 44.5 | 3 | 100 |
| V-1028 | 1.75 | 44.5 | .156 | 4.0 | 1.92 | 48.8 | 1.50 | 38.1 | .75 | 19.1 | 1.75 | 44.5 | 3 | 100 |
| V-1030 | 2.25 - 2.75 | 57.1 - 69.9 | .156 | 4.0 | 2.44 | 61.9 | 2.61 | 66.3 | .75 | 19.1 | 1.50 | 38.1 | 3 | 100 |

VM Screw Mount Component Clip

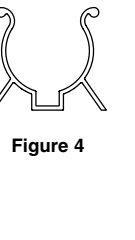
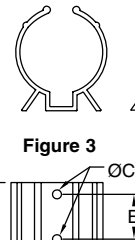
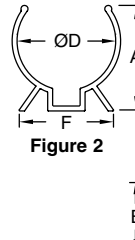
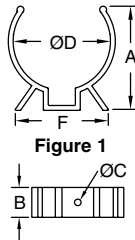


Figure 1

Figure 2

Figure 3

Figure 4

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Black

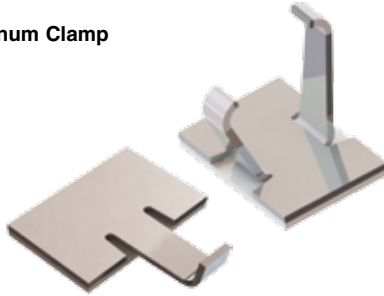
Features:

- Smooth edges protect components from wear and abrasion
- Legs prevent shifting and tipping
- Mounts securely with screws or rivets

| Item No. | D Holding Ø | | C Hole Ø | | A Ref. | | B | | E | | F Ref. | | Figure | Bulk Pack Qty. |
|----------|-------------|------|----------|-----|--------|------|------|------|-----------------------|------|--------|------|--------|----------------|
| | In | mm | In | mm | In | mm | In | mm | In | mm | In | mm | | |
| VM-1002 | 3/8 | 9.5 | 0.11 | 2.8 | 0.44 | 11.2 | 0.50 | 12.7 | Single Hole in Center | | 0.54 | 13.7 | 1 | 100 |
| VM-1004 | 1/2 | 12.7 | 0.11 | 2.8 | 0.52 | 13.2 | 0.50 | 12.7 | Single Hole in Center | | 0.75 | 19.1 | 1 | 100 |
| VM-1007 | 11/16 | 17.5 | 0.15 | 3.8 | 0.78 | 19.8 | 0.50 | 12.7 | Single Hole in Center | | 0.82 | 20.8 | 1 | 100 |
| VM-1008 | 3/4 | 19.1 | 0.15 | 3.8 | 0.97 | 24.6 | 0.50 | 12.7 | Single Hole in Center | | 0.98 | 24.9 | 1 | 100 |
| VM-1010 | 1 | 25.4 | 0.15 | 3.8 | 1.03 | 26.1 | 1.12 | 28.4 | .750 | 19.1 | 1.25 | 31.8 | 2 | 100 |
| VM-1011 | 1-3/8 | 34.9 | 0.15 | 3.8 | 1.51 | 38.4 | 1.16 | 29.5 | .750 | 19.1 | 1.37 | 34.8 | 2 | 100 |
| VM-1024 | 1-1/2 | 38.1 | 0.15 | 3.8 | 1.67 | 42.4 | 1.70 | 43.2 | .750 | 19.1 | 1.50 | 38.1 | 3 | 100 |
| VM-1030 | 2-1/4 | 57.2 | 0.15 | 3.8 | 2.50 | 63.5 | 1.52 | 38.6 | .750 | 19.1 | 3.00 | 76.2 | 4 | 100 |



ASK / RAK
Adhesive Mount Aluminum Clamp



Specifications:

- Material: Aluminum, Bright Finish

Features:

- Aluminum arms are flexed around bundle
- Lightweight and durable
- Adhesive mount for quick installation

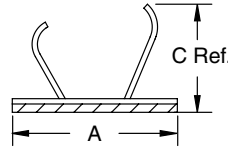


Figure 1

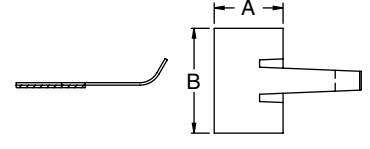


Figure 2

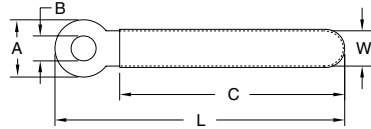
| Item No. | Figure | A | | B Base Depth | | Max Bundle Ø | | Bulk Pack Qty. |
|----------|--------|-------|------|--------------|------|--------------|-----|----------------|
| | | In | mm | In | mm | In | mm | |
| ASK-3 | 1 | 0.440 | 11.3 | 0.660 | 16.8 | 0.234 | 6.0 | 250 |
| ASK-6 | 1 | 0.620 | 15.7 | 0.740 | 18.8 | 0.375 | 9.5 | 250 |
| RAK-1 | 2 | 0.440 | 11.3 | 0.670 | 17.1 | 0.234 | 6.0 | 250 |
| RAK-2 | 2 | 0.640 | 16.3 | 0.760 | 19.3 | 0.375 | 9.5 | 250 |

VCC
Vinyl Coated Adjustable Steel Clamp



Specifications:

- Material: PVC Coated Soft Steel
- Color: Body - Steel Coating - Black

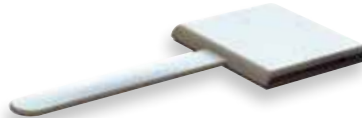


Features:

- For bundling and clamping cable or tubing securely
- Vinyl coating grips and insulates the cable
- Easily bends and forms to desired shape for varying holding diameters

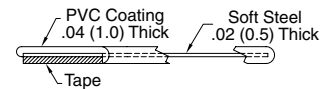
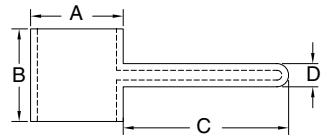
| Item No. | Bundle Ø | | C Ref. | | L Ref. | | W Ref. | | A | | B Ø | | Pack Qty. | Bulk Pack Qty. |
|------------|----------|------|--------|-------|--------|-------|--------|-----|-------|-----|-------|-----|-----------|----------------|
| | In | mm | In | mm | In | mm | In | mm | In | mm | In | mm | | |
| VCC-83028 | 0.220 | 5.7 | 0.710 | 18.0 | 1.100 | 28.0 | 0.120 | 3.0 | 0.315 | 8.0 | 0.118 | 3.0 | 1 | 1000 |
| VCC-83535 | 0.310 | 7.9 | 0.980 | 25.0 | 1.340 | 35.0 | 0.200 | 5.0 | 0.315 | 8.0 | 0.138 | 3.5 | 1 | 1000 |
| VCC-83540 | 0.370 | 9.5 | 1.180 | 30.0 | 1.570 | 40.0 | 0.120 | 3.0 | 0.315 | 8.0 | 0.138 | 3.5 | 1 | 1000 |
| VCC-63048 | 0.500 | 12.7 | 1.570 | 40.0 | 1.890 | 48.0 | 0.080 | 2.0 | 0.236 | 6.0 | 0.118 | 3.0 | 1 | 1000 |
| VCC-84554 | 0.520 | 13.3 | 1.650 | 42.0 | 2.130 | 54.0 | 0.190 | 4.8 | 0.315 | 8.0 | 0.177 | 4.5 | 1 | 1000 |
| VCC-63254 | 0.570 | 14.6 | 1.810 | 46.0 | 2.130 | 54.0 | 0.140 | 3.6 | 0.236 | 6.0 | 0.126 | 3.2 | 1 | 1000 |
| VCC-83664 | 0.660 | 16.9 | 2.090 | 53.0 | 2.520 | 64.0 | 0.200 | 5.0 | 0.315 | 8.0 | 0.161 | 4.1 | 1 | 1000 |
| VCC-84576 | 0.810 | 20.7 | 2.560 | 65.0 | 2.990 | 76.0 | 0.180 | 4.5 | 0.315 | 8.0 | 0.177 | 4.5 | 1 | 1000 |
| VCC-84584 | 0.900 | 22.9 | 2.830 | 72.0 | 3.310 | 84.0 | 0.180 | 4.5 | 0.315 | 8.0 | 0.177 | 4.5 | 1 | 1000 |
| VCC-845126 | 1.400 | 35.6 | 4.410 | 112.0 | 4.960 | 126.0 | 0.240 | 6.0 | 0.315 | 8.0 | 0.177 | 4.5 | 1 | 100 |

PCC
Adhesive Mount Vinyl Coated Adjustable Steel Clamp



Specifications:

- Material: Soft Steel with PVC Coating
- Color: White



Features:

- Protects and insulates wires or components
- Flexible arm holds flat, round, or oddly shaped components
- Arm may be opened or closed repeatedly and reshaped for varying holding diameters

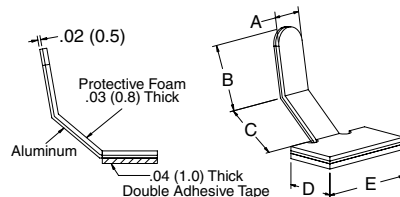
| Item No. | A Ref. | | B | | C Ref. | | D Ref. | | Bulk Pack Qty. |
|----------|--------|------|-------|------|--------|------|--------|-----|----------------|
| | In | mm | In | mm | In | mm | In | mm | |
| PCC-5 | 0.310 | 8.0 | 0.310 | 8.0 | 0.590 | 15.0 | 0.080 | 2.1 | 1000 |
| PCC-9 | 0.550 | 14.0 | 0.550 | 14.0 | 0.980 | 25.0 | 0.140 | 3.5 | 500 |
| PCC-12 | 0.750 | 19.0 | 0.750 | 19.0 | 1.580 | 40.0 | 0.160 | 4.0 | 500 |

PFC
Adhesive Mount Foam Coated Adjustable Steel Clamp



Specifications:

- Material: Foam Coated Aluminum
- Color: Grey Coated



Features:

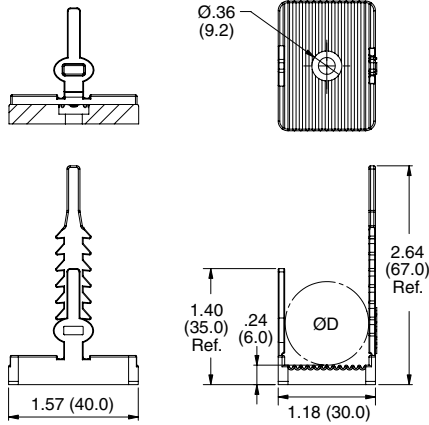
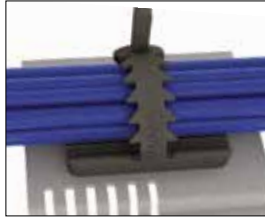
- Made of aluminum with a protective foam coating on the inside of the clamp that protects cables and fibers
- Flexible arm holds flat, round or oddly shaped components
- Arm may be opened or closed repeatedly and reshaped for varying holding diameters

| Item No. | A Ref. | | B Ref. | | C Ref. | | D | | E | | Bulk Pack Qty. |
|----------|--------|-----|--------|------|--------|------|-------|------|-------|------|----------------|
| | In | mm | In | mm | In | mm | In | mm | In | mm | |
| PFC-25M | 0.189 | 4.8 | 0.494 | 12.6 | 0.437 | 11.1 | 0.380 | 9.7 | 0.750 | 19.1 | 1000 |
| PFC-50M | 0.205 | 5.2 | 0.573 | 14.6 | 0.55 | 14.1 | 0.550 | 14.1 | 0.980 | 25.0 | 1000 |



CABLE CLIPS & CLAMPS

UMB Universal Rubber Clamp



Specifications:

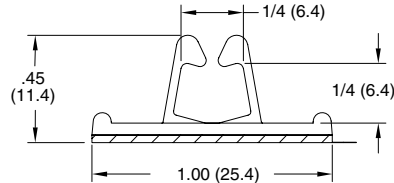
- Material: Neoprene Rubber, 50 Shore A
- Color: Black

Features:

- Flexible, serrated buckle style clamp provides a tight grip to the bundle
- Large, ribbed base gives the cables extra surface area which provides some strain relief
- Two mounting styles available: #10 screw or adhesive

| Item No. | Mounting Method | D Approx. Max Cable Bundle Ø | | Pack Qty. | Bulk Pack Qty. |
|-----------|-----------------|------------------------------|------|-----------|----------------|
| | | In | mm | | |
| UMB-1 | #10 or M5 Screw | .79 | 20.0 | 1 | 200 |
| UMB-1A-RT | Adhesive | .79 | 20.0 | 1 | 200 |

WCB Cord Clip on Adhesive Base



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Routes and fastens cords & cables
- Adhesive mount design for quick & easy installation

| Item No. | Approval | Depth | | Bulk Pack Qty. |
|----------------|----------|-------|------|----------------|
| | | In | mm | |
| WCB-250-01A-RT | | 0.500 | 12.7 | 1000 |

SCCA / SCCB Standoff Cable Clip

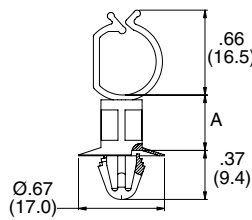


Figure 1

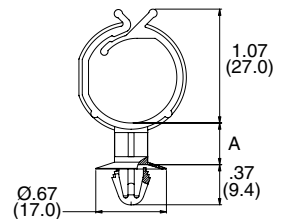


Figure 2

Specifications:

- Material: Nylon 6/6
- Color: Natural
- Mounting Hole: .256 - .276 (6.5 - 7.0)
- Panel Thickness: .024 - 0.079 (0.6 - 2.0)

Features:

- Gathers and routes wires
- Standoff design provides spacing between the wires and chassis

| Item No. | UL94 V-2 | UL94 V-0 | Figure | A | | Max Bundle Ø | | Bulk Pack Qty. |
|-----------|-----------|----------|--------|------|-------|--------------|------|----------------|
| | | | | In | mm | In | mm | |
| SCCA-1-01 | SCCA-1-19 | 1 | 0.160 | 4.0 | 0.870 | 22.0 | 1000 | |
| SCCA-2-01 | SCCA-2-19 | 1 | 0.240 | 6.0 | 0.870 | 22.0 | 1000 | |
| SCCA-3-01 | SCCA-3-19 | 1 | 0.320 | 8.0 | 0.870 | 22.0 | 1000 | |
| SCCA-4-01 | SCCA-4-19 | 1 | 0.390 | 10.0 | 0.870 | 22.0 | 1000 | |
| SCCA-5-01 | SCCA-5-19 | 1 | 0.470 | 12.0 | 0.870 | 22.0 | 1000 | |
| SCCB-1-01 | SCCB-1-19 | 2 | 0.160 | 4.0 | 0.430 | 11.0 | 1000 | |
| SCCB-2-01 | SCCB-2-19 | 2 | 0.240 | 6.0 | 0.430 | 11.0 | 1000 | |
| SCCB-3-01 | SCCB-3-19 | 2 | 0.320 | 8.0 | 0.430 | 11.0 | 1000 | |
| SCCB-4-01 | SCCB-4-19 | 2 | 0.390 | 10.0 | 0.430 | 11.0 | 1000 | |
| SCCB-5-01 | SCCB-5-19 | 2 | 0.470 | 12.0 | 0.430 | 11.0 | 1000 | |
| SCCB-6-01 | SCCB-6-19 | 2 | 1.180 | 30.0 | 0.430 | 11.0 | 1000 | |



**SLCS / SLCSE
Standoff Locking Clip**

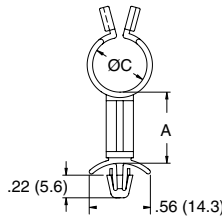


Figure 1

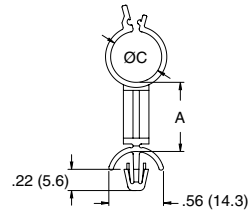


Figure 2



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural
- Mounting Hole: .187 (4.8)
- SLCS/SLCSE Panel Thickness: .031 - .078 (0.8 - 2.0)
- SLCSE2 Panel Thickness: .078 - .160 (2.0 - 4.0)

Features:

- Gathers and routes wires
- Easy locking design makes it easy to open & close with very little effort
- Standoff design provides spacing between the wires and the chassis

| Item No. | Approval | Figure | A | | C Max Bundle Ø | | Bulk Pack Qty. |
|----------------|----------|--------|-------|------|----------------|------|----------------|
| | | | In | mm | In | mm | |
| SLCS-250-3-01 | | 1 | 0.187 | 4.8 | 0.187 | 4.8 | 1000 |
| SLCS-250-4-01 | | 1 | 0.250 | 6.4 | 0.187 | 4.8 | 1000 |
| SLCS-250-6-01 | | 1 | 0.375 | 9.5 | 0.187 | 4.8 | 1000 |
| SLCS-250-8-01 | | 1 | 0.500 | 12.7 | 0.187 | 4.8 | 1000 |
| SLCS-250-16-01 | | 1 | 1.000 | 25.4 | 0.187 | 4.8 | 1000 |
| SLCS-370-3-01 | | 1 | 0.187 | 4.8 | 0.312 | 7.9 | 1000 |
| SLCS-370-4-01 | | 1 | 0.250 | 6.4 | 0.312 | 7.9 | 1000 |
| SLCS-370-6-01 | | 1 | 0.375 | 9.5 | 0.312 | 7.9 | 1000 |
| SLCS-370-8-01 | | 1 | 0.500 | 12.7 | 0.312 | 7.9 | 1000 |
| SLCS-370-16-01 | | 1 | 1.000 | 25.4 | 0.312 | 7.9 | 1000 |
| SLCS-500-3-01 | | 1 | 0.187 | 4.8 | 0.437 | 11.1 | 1000 |
| SLCS-500-4-01 | | 1 | 0.250 | 6.4 | 0.437 | 11.1 | 1000 |
| SLCS-500-6-01 | | 1 | 0.375 | 9.5 | 0.437 | 11.1 | 1000 |
| SLCS-500-8-01 | | 1 | 0.500 | 12.7 | 0.437 | 11.1 | 1000 |

| Item No. | Approval | Figure | A | | C Max Bundle Ø | | Bulk Pack Qty. |
|-----------------|----------|--------|-------|------|----------------|------|----------------|
| | | | In | mm | In | mm | |
| SLCS-500-16-01 | | 1 | 1.000 | 25.4 | 0.437 | 11.1 | 1000 |
| SLCS-750-3-01 | | 1 | 0.187 | 4.8 | 0.687 | 17.5 | 1000 |
| SLCS-750-4-01 | | 1 | 0.250 | 6.4 | 0.687 | 17.5 | 1000 |
| SLCS-750-6-01 | | 1 | 0.375 | 9.5 | 0.687 | 17.5 | 1000 |
| SLCS-750-8-01 | | 1 | 0.500 | 12.7 | 0.687 | 17.5 | 1000 |
| SLCS-750-16-01 | | 1 | 1.000 | 25.4 | 0.687 | 17.5 | 1000 |
| SLCSE-250-3-01 | | 2 | 0.187 | 4.8 | 0.220 | 5.6 | 1000 |
| SLCSE-370-3-01 | | 2 | 0.187 | 4.8 | 0.350 | 8.9 | 1000 |
| SLCSE-500-3-01 | | 2 | 0.187 | 4.8 | 0.470 | 12.0 | 1000 |
| SLCSE-750-3-01 | | 2 | 0.187 | 4.8 | 0.730 | 18.4 | 1000 |
| SLCSE2-250-3-01 | | 2 | 0.187 | 4.8 | 0.220 | 5.6 | 1000 |
| SLCSE2-370-3-01 | | 2 | 0.187 | 4.8 | 0.350 | 8.9 | 1000 |
| SLCSE2-500-3-01 | | 2 | 0.187 | 4.8 | 0.470 | 12.0 | 1000 |
| SLCSE2-750-3-01 | | 2 | 0.187 | 4.8 | 0.730 | 18.4 | 1000 |

**SHK / SHKE / SHKBS
Standoff Cable Clip**

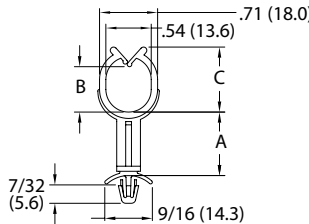


Figure 1

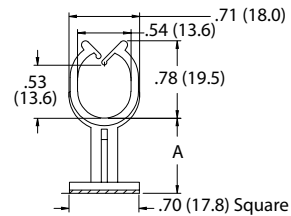


Figure 2

Specifications:

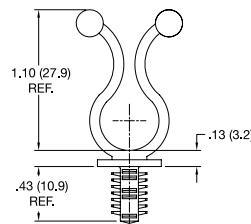
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Gathers and routes wire harnesses
- Standoff design provides spacing between the wire harnesses and the chassis

| Item No. | Approval | Figure | A | | B Ref. | | C Ref. | | Mounting Hole Ø | | Panel Thickness | | Bulk Pack Qty. |
|----------------|----------|--------|-------|------|--------------|------|--------|------|-----------------|-----|-----------------|-----------|----------------|
| | | | In | mm | In | mm | In | mm | In | mm | In | mm | |
| SHK-6-01 | | 1 | 0.375 | 9.5 | 0.540 | 13.6 | 0.770 | 19.5 | 0.187 | 4.8 | 0.031 - 0.78 | 0.8 - 2.0 | 1000 |
| SHK-8-01 | | 1 | 0.500 | 12.7 | 0.540 | 13.6 | 0.770 | 19.5 | 0.187 | 4.8 | 0.031 - 0.78 | 0.8 - 2.0 | 1000 |
| SHKE-6-01 | | 1 | 0.375 | 9.5 | 0.810 | 20.6 | 1.140 | 29.0 | 0.187 | 4.8 | 0.031 - 0.78 | 0.8 - 2.0 | 1000 |
| SHKE-8-01 | | 1 | 0.500 | 12.7 | 0.810 | 20.6 | 1.140 | 29.0 | 0.187 | 4.8 | 0.031 - 0.78 | 0.8 - 2.0 | 1000 |
| SHKBS-4-01A-RT | | 2 | 0.250 | 6.4 | See Figure 2 | | | | Not Applicable | | | | 1000 |
| SHKBS-8-01A-RT | | 2 | 0.500 | 12.7 | See Figure 2 | | | | Not Applicable | | | | 1000 |

**STL-8
Standoff Twist Lock**



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Lifts wires off board to isolate from other board components
- Cable and wire bundles load and unload with a fingertip twist

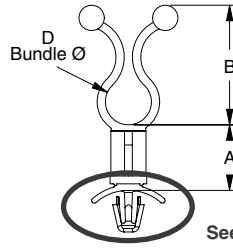
| Item No. | Bundle Ø | | Hole Ø | | Min Board Thickness | | Bulk Pack Qty. |
|----------------|---------------|-------------|--------|-----|---------------------|-----|----------------|
| | In | mm | In | mm | In | mm | |
| STL-8-450-2-01 | 0.400 - 0.500 | 10.2 - 12.7 | 0.250 | 6.4 | 0.250 | 7.2 | 1000 |





TWIST TIES

STL
Standoff Twist Lock



Hole Ø: .187 (4.75)
Panel Thickness:
.031-.078 (0.8-2)

See Individual Styles for Mounting Details

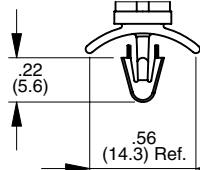
STL Basic Style

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

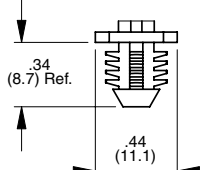
Features:

- Lifts wires off board to isolate from other board components
- Cable and wire bundles load and unload with a fingertip twist
- Four mounting styles



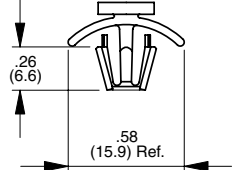
Hole Ø: .156 (4)
Panel Thickness:
.031-.078 (0.8-2)

STL-1



Hole Ø: .312 (7.9)
Panel Thickness:
.250 (7.9) Minimum

STL-3

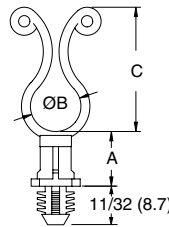


Hole Ø: .236 (6)
Panel Thickness:
.031-.078 (0.8-2)

STL-6

| Item No. | Approval | D Bundle Ø | | A Spacer Length | | B Ref. | | Bulk Pack Qty. | | |
|--------------|----------|------------|------|-----------------|------|--------|------|----------------|------|------|
| | | In | mm | In | mm | In | mm | | | |
| STL-250-3-01 | UL | .200 | .300 | 5.1 | 7.6 | 0.187 | 4.8 | 0.750 | 19.1 | 1000 |
| STL-250-8-01 | UL | .200 | .300 | 5.1 | 7.6 | 0.500 | 12.7 | 0.750 | 19.1 | 1000 |
| STL-350-3-01 | UL | .300 | .400 | 7.6 | 10.2 | 0.187 | 4.8 | 0.910 | 23.1 | 1000 |
| STL-350-8-01 | UL | .300 | .400 | 7.6 | 10.2 | 0.500 | 12.7 | 0.910 | 23.1 | 1000 |
| STL-450-3-01 | UL | .400 | .500 | 10.2 | 12.7 | 0.187 | 4.8 | 1.090 | 27.7 | 1000 |
| STL-450-8-01 | UL | .400 | .500 | 10.2 | 12.7 | 0.500 | 12.7 | 1.090 | 27.7 | 1000 |
| STL-600-3-01 | UL | .500 | .600 | 12.7 | 15.2 | 0.187 | 4.8 | 1.280 | 32.5 | 1000 |
| STL-600-8-01 | UL | .500 | .600 | 12.7 | 15.2 | 0.500 | 12.7 | 1.280 | 32.5 | 1000 |
| STL-750-3-01 | UL | .700 | .800 | 17.8 | 20.3 | 0.187 | 4.8 | 1.450 | 36.8 | 1000 |
| STL-750-8-01 | UL | .700 | .800 | 17.8 | 20.3 | 0.500 | 12.7 | 1.450 | 36.8 | 1000 |

BHKL
Fir-Tree Curly Lock



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural
- To press fit in a .312 (7.9) Ø hole in a .250 (6.4) minimum panel thickness

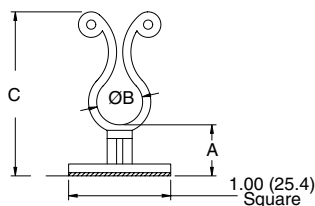
Features:

- Ends twist into place with very little effort
- Releasable and reusable for easy wire bundling
- Rounded edges prevent abrasion



| Item No. | Approval | A | | Bundle Ø B | | C Ref. | | Bulk Pack Qty. |
|----------------|----------|-------|------|---------------|-------------|--------|------|----------------|
| | | In | mm | In | mm | In | mm | |
| BHKL-350-4-01 | UL | 0.250 | 6.4 | 0.300 - 0.400 | 7.6 - 10.2 | 1.000 | 25.4 | 1000 |
| BHKL-350-10-01 | UL | 0.625 | 15.9 | 0.300 - 0.400 | 7.6 - 10.2 | 1.000 | 25.4 | 1000 |
| BHKL-450-4-01 | UL | 0.250 | 6.4 | 0.400 - 0.500 | 10.2 - 12.7 | 1.125 | 28.6 | 1000 |
| BHKL-450-6-01 | UL | 0.375 | 9.5 | 0.400 - 0.500 | 10.2 - 12.7 | 1.125 | 28.6 | 1000 |
| BHKL-750-4-01 | UL | 0.250 | 6.4 | 0.700 - 0.800 | 17.8 - 20.3 | 1.500 | 38.1 | 1000 |
| BHKL-750-6-01 | UL | 0.375 | 9.5 | 0.700 - 0.800 | 17.8 - 20.3 | 1.500 | 38.1 | 1000 |

KLBS
Adhesive Mount Standoff Curly Lock



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

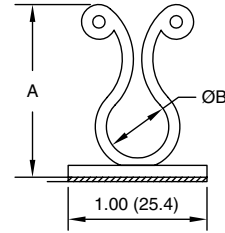
Features:

- Ends twist into place with very little effort
- Releasable and reusable for easy wire bundling
- Rounded edges prevent abrasion

| Item No. | Approval | A | | Bundle Ø B | | C Ref. | | Bulk Pack Qty. |
|----------------|----------|-------|------|---------------|------------|--------|------|----------------|
| | | In | mm | In | mm | In | mm | |
| KLBS-350-401A | UL | 0.250 | 6.4 | 0.300 - 0.400 | 7.6 - 10.2 | 1.281 | 32.5 | 1000 |
| KLBS-3508-01A | UL | 0.500 | 12.7 | 0.300 - 0.400 | 7.6 - 10.2 | 1.531 | 38.9 | 1000 |
| KLBS-35012-01A | UL | 0.750 | 19.1 | 0.300 - 0.400 | 7.6 - 10.2 | 1.781 | 45.2 | 1000 |
| KLBS-35016-01A | UL | 1.000 | 25.4 | 0.300 - 0.400 | 7.6 - 10.2 | 2.031 | 51.6 | 1000 |



KLB
Adhesive Mount Curly Lock



Specifications:

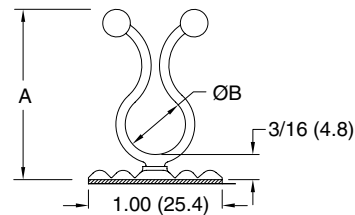
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Cables are locked in place with a fingertip twist
- Cables are easily removable with another fingertip twist
- Quick mounting adhesive base does not require through-hole

| Item No. | Approval | B Holding Ø | | A Ref. | | Base Depth | | Bulk Pack Qty. |
|-------------|----------|-------------|-------------|--------|------|------------|------|----------------|
| | | In | mm | In | mm | In | mm | |
| KLB-350A-RT | | .300 - .400 | 7.6 - 10.2 | 1.070 | 27.2 | 0.510 | 13.0 | 1000 |
| KLB-450A-RT | | .400 - .500 | 10.2 - 12.7 | 1.230 | 31.2 | 0.510 | 13.0 | 1000 |
| KLB-750A-RT | | .700 - .800 | 17.8 - 20.3 | 1.580 | 40.1 | 0.510 | 13.0 | 1000 |

TLFB
Twist Lock on Flexible Adhesive Base



Specifications:

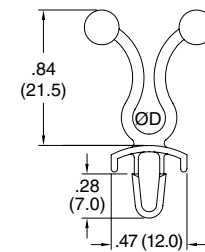
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Flexible adhesive base can be mounted onto contoured surfaces
- Cables are locked into place with a fingertip twist

| Item No. | Approval | Bundle Ø B | | A Ref. | | Base Depth | | Bulk Pack Qty. |
|---------------|----------|---------------|-------------|--------|------|------------|------|----------------|
| | | In | mm | In | mm | In | mm | |
| TLFB-350-01A1 | | 0.300 - 0.400 | 0.08 - 10.2 | 1.150 | 29.3 | 0.500 | 12.7 | 1000 |
| TLFB-450-01A1 | | 0.400 - 0.500 | 10.2 - 12.7 | 1.270 | 32.3 | 0.500 | 12.7 | 1000 |
| TLFB-750-01A1 | | 0.700 - 0.800 | 17.8 - 20.3 | 1.610 | 40.9 | 0.500 | 12.7 | 1000 |

TLJ Series
Snap In Twist Lock



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Ends twist into place with very little effort
- Releasable and reusable for easy wire bundling

| Item No. | Approval | Mounting Hole Ø | | Bundle Ø D | | Panel Thickness | | Bulk Pack Qty. |
|------------|----------|-----------------|-----|-------------|-----------|-----------------|-----------|----------------|
| | | In | mm | In | mm | In | mm | |
| TLJ-200-01 | | 0.187 | 4.8 | 0.500-0.600 | 12.7-15.2 | 0.031 - 0.078 | 0.8 - 2.0 | 1000 |

SKL / SKLO
Side Entry and 45° Curly Lock

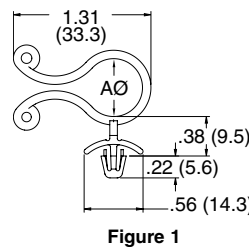
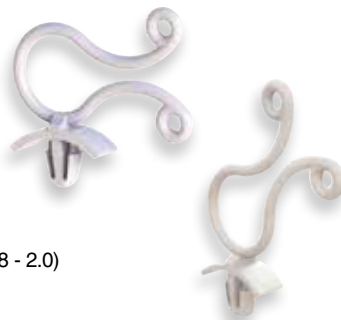


Figure 1

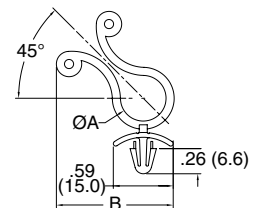


Figure 2

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural
- Mounting Hole: .187 (4.8)
- Panel Thickness: .031 - .078 (0.8 - 2.0)

Features:

- Gathers and routes wires
- Ends twist into place with very little effort
- Releasable & reusable for easy wire bundling
- Eases installation in hard to reach places

| Item No. | Approval | Figure | Bundle Ø A | | B Ref. | | Bulk Pack Qty. |
|-------------|----------|--------|---------------|-------------|--------------|------|----------------|
| | | | In | mm | In | mm | |
| SKLO-550-01 | | 1 | 0.500 - 0.600 | 12.7 - 15.2 | See Figure 1 | | 1000 |
| SKL45-250 | | 2 | 0.150 - 0.250 | 3.8 - 6.35 | 0.980 | 24.9 | 1000 |
| SKL45-350 | | 2 | 0.300 - 0.400 | 7.6 - 10.0 | 1.070 | 27.2 | 1000 |
| SKL45-450 | | 2 | 0.400 - 0.470 | 10.0 - 12.0 | 1.120 | 28.4 | 1000 |



TWIST TIES

KLH / TLH / TLHE Screw Mount Hinged Twist Lock



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Ends twist into place with very little effort
- Releasable and reusable for easy wire bundling
- Hinged design makes it easier to adjust your wire angles as needed for the application
- Screw mount design for easy and fast assembly

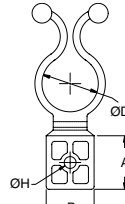


Figure 1

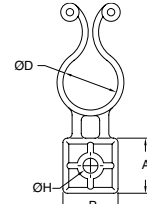


Figure 2



| Item No. | Approval | Holding Ø D | | H | | Recommended Screw Size | A | | B | | Figure | Bulk Pack Qty. |
|---------------|----------|---------------|-------------|-------|-----|------------------------|-------|------|-------|------|--------|----------------|
| | | In | mm | In | mm | | In | mm | In | mm | | |
| TLH-800-01 | | 0.750 - 0.850 | 19.0 - 21.6 | 0.160 | 4.1 | #6 or M3 | 0.750 | 19.0 | 0.670 | 17.0 | 1 | 1000 |
| TLH-500-01 | — | 0.450 - 0.550 | 11.4 - 14.0 | 0.170 | 4.2 | #8 or M4 | 0.560 | 14.2 | 0.550 | 14.0 | 1 | 1000 |
| TLHE-1-750-01 | — | 0.700 - 0.800 | 17.8 - 20.3 | 0.204 | 5.2 | #10 or M5 | 0.750 | 19.0 | 0.670 | 17.0 | 1 | 1000 |
| KLH-750-01 | | 0.700 - 0.800 | 17.8 - 20.3 | 0.204 | 5.2 | #10 or M5 | 0.750 | 19.0 | 0.750 | 19.0 | 2 | 1000 |

WTLH Webbed Hinged Twist Lock

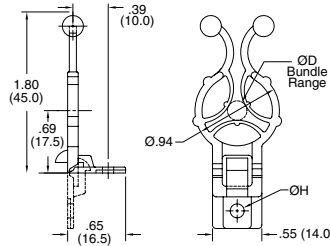


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Once clamp is hinged, it locks into position
- Webbed design provides a positive lock



| Item No. | Hole Ø H | | Bundle Ø D | | Recommended Screw Size | Bulk Pack Qty. |
|-----------------|----------|-----|---------------|------------|------------------------|----------------|
| | In | mm | In | mm | | |
| WTLH90-300-4-01 | 0.130 | 3.3 | 0.140 - 0.480 | 3.6 - 12.2 | #4 or M3 | 500 |
| WTLH90-300-6-01 | 0.150 | 3.8 | 0.140 - 0.480 | 3.6 - 12.2 | #6 or M3.5 | 500 |
| WTLH90300-M4-01 | 0.170 | 4.3 | 0.140 - 0.480 | 3.6 - 12.2 | #8 or M4 | 500 |

TLHS Webbed Hinged Twist Lock

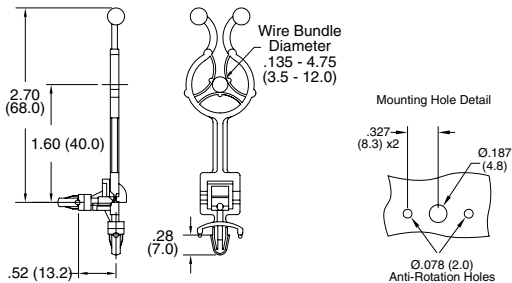


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural
- Panel Thickness: .078 (2.0)

Features:

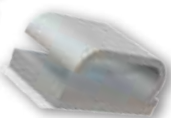
- Hinged design eases installation for hard to reach places
- Tensioning device surrounding wire bundles allows for a positive lock
- Once the base is installed in the panel, the spacer is hinged where it locks into place, routing at a 90° angle



| Item No. | Approval | Bulk Pack Qty. |
|---------------|----------|----------------|
| TLHS90-300-01 | | 500 |

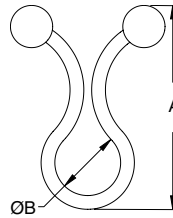
FREE SAMPLES!

Call Or Go Online





**TL / TT
Twist Lock**



Specifications:

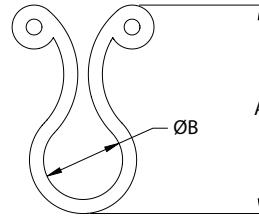
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Ends twist into place with very little effort
- Releasable and reusable for easy wire bundling
- Smooth ball shaped ends won't cut into wire or cable insulation

| Item No. | Approval | Bundle Ø B | | A Ref. | | Bulk Pack Qty. |
|----------------|----------|---------------|-------------|--------|------|----------------|
| | | In | mm | In | mm | |
| TT001A | — | 0.150 - .190 | 3.8 - 4.8 | 0.850 | 21.6 | 100 |
| TL-250 | | 0.200 - 0.300 | 5.1 - 7.6 | 0.900 | 22.9 | 1000 |
| TL-350 | | 0.300 - 0.400 | 7.6 - 10.2 | 1.030 | 26.1 | 1000 |
| TL-450 | | 0.400 - 0.500 | 10.2 - 12.7 | 1.200 | 30.5 | 1000 |
| TL-600 | | 0.550 - 0.650 | 14.0 - 16.5 | 1.330 | 33.7 | 1000 |
| TL-750 | | 0.700 - 0.800 | 17.8 - 20.3 | 1.550 | 39.4 | 1000 |
| TL-950 | | Max 1.000 | 25.4 | 1.700 | 43.4 | 1000 |
| TL-1125 | | Max 1.187 | 30.2 | 2.190 | 55.6 | 1000 |
| TL-1375 | | Max 1.437 | 36.5 | 2.680 | 68.1 | 1000 |
| TL-1500 | | Max 1.562 | 39.7 | 2.930 | 74.4 | 1000 |
| TL-1750 | | Max 1.812 | 46.0 | 3.450 | 87.6 | 1000 |

**KL
Curly Lock**



Specifications:

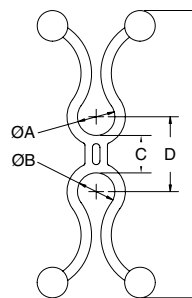
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Ends twist into place with very little effort
- Releasable and reusable for easy wire bundling
- Rounded edges prevent abrasion

| Item No. | Approval | Bundle Ø B | | A Ref. | | Bulk Pack Qty. |
|---------------|----------|---------------|-------------|--------|------|----------------|
| | | In | mm | In | mm | |
| KL-125 | | 0.125 - 0.150 | 3.2 - 3.8 | 0.480 | 12.2 | 1000 |
| KL-200 | | 0.160 - 0.240 | 4.1 - 6.1 | 0.820 | 20.7 | 1000 |
| KL-250 | | 0.200 - 0.300 | 5.1 - 7.6 | 0.910 | 23.0 | 1000 |
| KL-350 | | 0.300 - 0.400 | 7.6 - 10.2 | 1.030 | 26.2 | 1000 |
| KL-450 | | 0.400 - 0.500 | 10.2 - 12.7 | 1.200 | 30.5 | 1000 |
| KL-600 | | 0.550 - 0.650 | 14.0 - 16.5 | 1.250 | 31.8 | 1000 |
| KL-750 | | 0.700 - .0800 | 17.8 - 20.3 | 1.520 | 38.6 | 1000 |
| KL-950 | | 0.900 - 1.000 | 22.9 - 25.4 | 1.750 | 44.5 | 1000 |

**DTL
Dual Twist Lock**



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

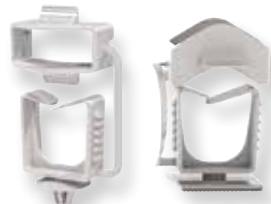
- Routes and separates two bundles
- Six bundle diameter ranges; from .20" - .80"
- Three spacer lengths; 1/4", 3/4" and 1-1/4"
- Cables are locked in place with a fingertip twist

| Item No. | A and B Bundle Ø | | C | | D Ref. | | E Ref. | | Bulk Pack Qty. |
|----------------------|------------------|-----------|-------|------|--------|------|--------|-------|----------------|
| | In | mm | In | mm | In | mm | In | mm | |
| DTL2525-4-01 | .200-.300 | 5.1-7.6 | 0.250 | 6.4 | 0.500 | 12.7 | 1.920 | 48.8 | 500 |
| DTL2525-12-01 | .200-.300 | 5.1-7.6 | 0.750 | 19.1 | 1.000 | 25.4 | 2.420 | 61.5 | 500 |
| DTL2525-20-01 | .200-.300 | 5.1-7.6 | 1.250 | 31.8 | 1.500 | 38.1 | 2.920 | 74.2 | 500 |
| DTL3535-4-01 | .300-.400 | 7.6-10.2 | 0.250 | 6.4 | 0.600 | 15.2 | 2.180 | 55.4 | 500 |
| DTL3535-12-01 | .300-.400 | 7.6-10.2 | 0.750 | 19.1 | 1.100 | 27.9 | 2.680 | 68.1 | 500 |
| DTL3535-20-01 | .300-.400 | 7.6-10.2 | 1.250 | 31.8 | 1.600 | 40.6 | 3.180 | 80.8 | 500 |
| DTL4545-4-01 | .400-.500 | 10.2-12.7 | 0.250 | 6.4 | 0.600 | 15.2 | 2.180 | 55.4 | 500 |
| DTL4545-12-01 | .400-.500 | 10.2-12.7 | 0.750 | 19.1 | 1.100 | 27.9 | 2.680 | 68.1 | 500 |
| DTL4545-20-01 | .400-.500 | 10.2-12.7 | 1.250 | 31.8 | 1.600 | 40.6 | 3.180 | 80.8 | 500 |
| DTL5555-4-01 | .500-.600 | 12.7-15.2 | 0.250 | 6.4 | 0.600 | 15.2 | 2.180 | 55.4 | 500 |
| DTL5555-12-01 | .500-.600 | 12.7-15.2 | 0.750 | 19.1 | 1.100 | 27.9 | 2.680 | 68.1 | 500 |
| DTL5555-20-01 | .500-.600 | 12.7-15.2 | 1.250 | 31.8 | 1.600 | 40.6 | 3.180 | 80.8 | 500 |
| DTL6565-4-01 | .600-.700 | 15.2-17.8 | 0.250 | 6.4 | 0.600 | 15.2 | 2.180 | 55.4 | 500 |
| DTL6565-12-01 | .600-.700 | 15.2-17.8 | 0.750 | 19.1 | 1.100 | 27.9 | 2.680 | 68.1 | 500 |
| DTL6565-20-01 | .600-.700 | 15.2-17.8 | 1.250 | 31.8 | 1.600 | 40.6 | 3.180 | 80.8 | 500 |
| DTL7575-4-01 | .700-.800 | 17.8-20.3 | 0.250 | 6.4 | 1.000 | 25.4 | 3.100 | 78.7 | 500 |
| DTL7575-12-01 | .700-.800 | 17.8-20.3 | 0.750 | 19.1 | 1.500 | 38.1 | 3.600 | 91.4 | 500 |
| DTL7575-20-01 | .700-.800 | 17.8-20.3 | 1.250 | 31.8 | 2.000 | 50.8 | 4.100 | 104.1 | 500 |



CABLE CLIPS & CLAMPS

HCS Hinged Cable Saddle



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Separate locking top holds and provides excellent strain relief to mounted cables
- Teeth on cable saddle holds locking top securely in place
- Push the saddle ends together to release locking top and cables
- Snap lock with cup provides stability and protects mounting hole

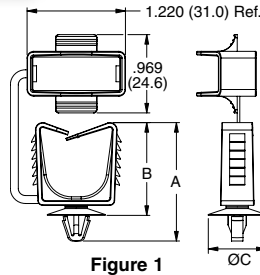


Figure 1

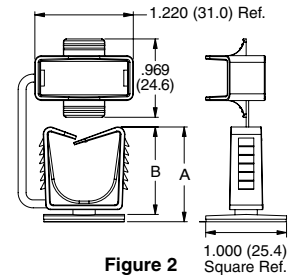


Figure 2

| Item No. | Figure | A Ref. | | B Max | | C | | Mounting Method | | Panel Thickness | | Cable Bundle Ø | | Bulk Pack Qty. |
|--------------|--------|--------|------|-------|------|-------|------|--------------------|----------------|-----------------|-----------|----------------|------------|----------------|
| | | In | mm | In | mm | In | mm | In | mm | In | mm | In | mm | |
| HCS1-01 | 1 | 0.338 | 34.0 | 1.141 | 29.0 | 0.629 | 16 | 0.157 - 0.189 Hole | 4.0 - 4.8 Hole | 0.016 - 0.063 | 0.4 - 1.6 | 0.118 - 0.629 | 3.0 - 16.0 | 250 |
| HCS2-01 | 1 | 1.448 | 36.8 | 1.129 | 28.7 | 0.716 | 18.2 | 0.236 - 0.267 Hole | 6.0 - 6.8 Hole | 0.024 - 0.098 | 0.6 - 2.5 | 0.118 - 0.629 | 3.0 - 16.0 | 250 |
| HCS3-01A4-RT | 2 | 1.160 | 29.5 | 1.082 | 27.5 | — | — | Adhesive | | — | — | 0.118 - 0.629 | 3.0 - 16.0 | 1000 |

WCC Webbed Centering Clip



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Cables are inserted into center of clamp. Clamp wraps around cables and locks them securely in place
- Finger grip eases installation
- Cupped base adds stability to the mounting and covers the hole completely

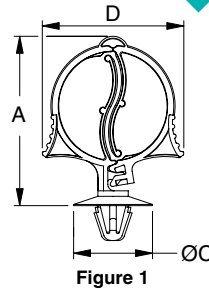


Figure 1

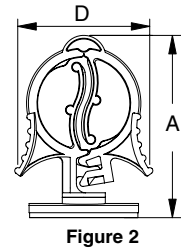
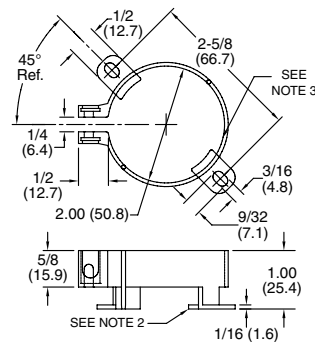


Figure 2



| Item No. | Bundle Ø | | Ø Mounting Hole | | Panel Thickness | | A Ref. | | D Ref. | | CO Ref. | | Figure | Bulk Pack Qty. |
|----------------|-------------|------------|-----------------|-----------|-----------------|-----------|--------|------|--------|------|----------|----------|--------|----------------|
| | In | mm | In | mm | In | mm | In | mm | In | mm | In | mm | | |
| WCC1-1-01 | .118 - .311 | 3.0 - 7.9 | .157 - .189 | 4.0 - 4.8 | .019-.063 | 0.5 - 1.6 | 1.100 | 28.0 | 0.910 | 23.0 | 0.630 | 16.0 | 1 | 500 |
| WCC1-2-01 | .118 - .374 | 3.0 - 9.5 | .157 - .189 | 4.0 - 4.8 | .019-.063 | 0.5 - 1.6 | 1.220 | 31.0 | 1.060 | 27.0 | 0.630 | 16.0 | 1 | 500 |
| WCC1-3-01 | .118 - .500 | 3.0 - 12.7 | .157 - .189 | 4.0 - 4.8 | .019-.063 | 0.5 - 1.6 | 1.460 | 37.0 | 1.300 | 33.0 | 0.630 | 16.0 | 1 | 500 |
| WCC2-1-01 | .118 - .311 | 3.0 - 7.9 | .236 - .267 | 6.0 - 6.8 | .019-.098 | 0.5 - 1.6 | 1.100 | 28.0 | 0.910 | 23.0 | 0.720 | 18.4 | 1 | 500 |
| WCC2-2-01 | .118 - .374 | 3.0 - 9.5 | .236 - .267 | 6.0 - 6.8 | .019-.098 | 0.5 - 1.6 | 1.220 | 31.0 | 1.060 | 27.0 | 0.720 | 18.4 | 1 | 500 |
| WCC2-3-01 | .118 - .500 | 3.0 - 12.7 | .236 - .267 | 6.0 - 6.8 | .019-.098 | 0.5 - 1.6 | 1.460 | 37.0 | 1.300 | 33.0 | 0.720 | 18.4 | 1 | 500 |
| WCC3-1-01A4-RT | .118 - .311 | 3.0 - 7.9 | Adhesive | Adhesive | Adhesive | Adhesive | 1.100 | 28.0 | 0.910 | 23.0 | Adhesive | Adhesive | 2 | 1000 |
| WCC3-2-01A4-RT | .118 - .374 | 3.0 - 9.5 | Adhesive | Adhesive | Adhesive | Adhesive | 1.220 | 31.0 | 1.060 | 27.0 | Adhesive | Adhesive | 2 | 1000 |
| WCC3-3-01A4-RT | .118 - .500 | 3.0 - 12.7 | Adhesive | Adhesive | Adhesive | Adhesive | 1.460 | 37.0 | 1.300 | 33.0 | Adhesive | Adhesive | 2 | 1000 |

SCH / SCHS Standoff Capacitor Holder



Specifications:

- Material: UL94 HB Glass Filled Nylon 6/6
- Color: Black

Notes:

Optional:

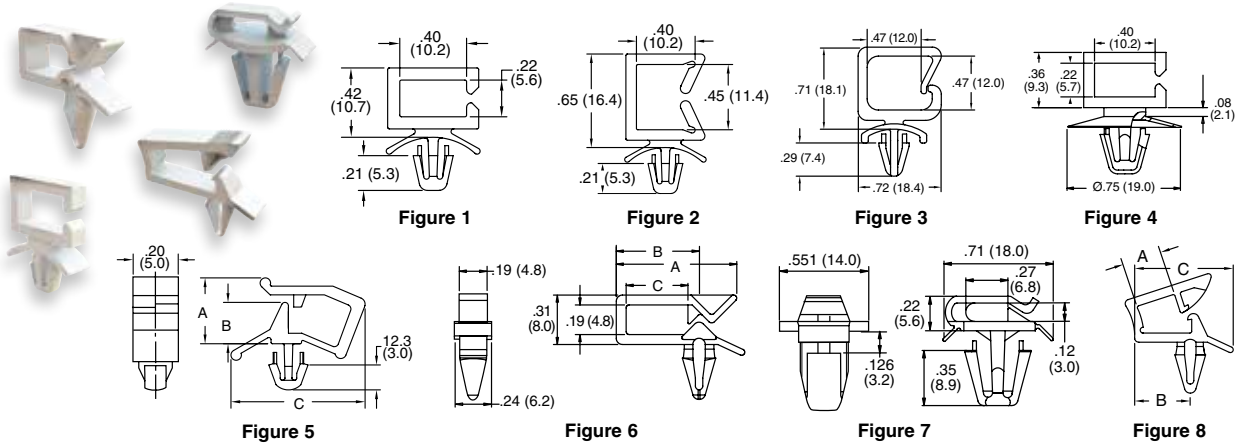
1. Clamping hardware; Screw (S6B) Stainless Steel, Zinc Plating; Quick Nut (QN-6) Spring Steel C1050, Coating: Black Phosphate
2. Spacer to elevate capacitor 3/32 (2.4) from chassis
3. Anti-rotation rib (3 locations)

| Item No. | Description | Bulk Pack Qty. |
|----------|----------------------------------|----------------|
| SCHS-2 | w/spacer, w/o hardware (Note 1) | 100 |
| SCH-2 | w/o spacer, w/o hardware | 100 |
| SCHS-2-H | w/spacer, w/ clamping hardware | 100 |
| SCH-2-H | w/o spacer, w/ clamping hardware | 100 |





WS-SE
Wire Saddle - Side Entry



Specifications:

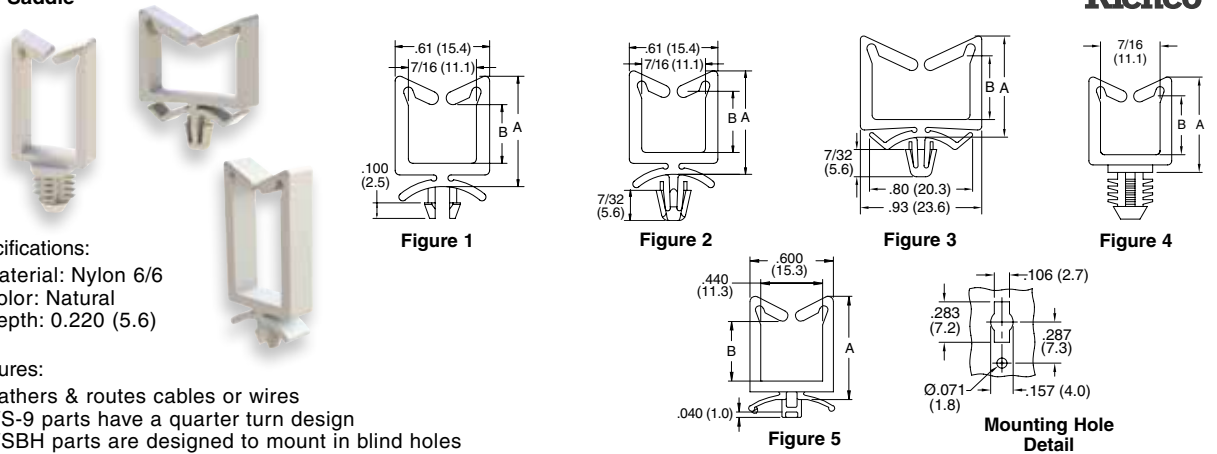
- Material: Nylon 6/6
- Color: Natural

Features:

- Gathers and routes single or groups of wires and cables
- Side entry provides low height where clearance is a problem

| Item No. | | Approval | Figure | A Ref. | | B | | C Ref. | | Mounting Hole Ø | | Panel Thickness | | Bulk Pack Qty. |
|--------------|--------------|----------|--------|--------|------|-------|------|--------|------|-----------------|-----|-----------------|-----------|----------------|
| UL94 V-2 | UL94 V-0 | | | In | mm | In | mm | In | mm | In | mm | In | mm | |
| WS-SE-A-1-01 | WS-SE-A-1-19 | — | 1 | | | | | | | 0.187 | 4.8 | 0.031 - 0.078 | 0.8 - 2.0 | 1000 |
| WS-SE-A-2-01 | WS-SE-A-2-19 | — | 2 | | | | | | | 0.187 | 4.8 | 0.031 - 0.078 | 0.8 - 2.0 | 1000 |
| WS-SE-A-3-01 | WS-SE-A-3-19 | — | 3 | | | | | | | 0.187 | 4.8 | 0.024 - 0.071 | 0.6 - 1.8 | 1000 |
| WS-SE-A-4-01 | WS-SE-A-4-19 | — | 4 | | | | | | | 0.256 | 6.5 | 0.031 - 0.078 | 0.8 - 2.0 | 1000 |
| WS-SE1-1-01 | — | RU | 5 | 0.190 | 4.8 | 0.090 | 2.4 | 0.500 | 12.7 | 0.138 | 3.5 | 0.020 - 0.063 | 0.5 - 1.6 | 1000 |
| WS-SE1-2-01 | — | RU | 5 | 0.260 | 6.7 | 0.160 | 4.2 | 0.590 | 15.1 | 0.138 | 3.5 | 0.020 - 0.063 | 0.5 - 1.6 | 1000 |
| WS-SE1-3-01 | — | RU | 5 | 0.340 | 8.5 | 0.230 | 5.7 | 0.810 | 20.3 | 0.138 | 3.5 | 0.020 - 0.063 | 0.5 - 1.6 | 1000 |
| WS-SE2-1-01 | — | RU | 6 | 0.650 | 16.6 | 0.410 | 10.5 | 0.280 | 7.1 | 0.187 | 4.8 | 0.020 - 0.063 | 0.5 - 1.6 | 1000 |
| WS-SE2-2-01 | — | RU | 6 | 0.770 | 19.5 | 0.530 | 13.4 | 0.390 | 10.0 | 0.187 | 4.8 | 0.020 - 0.063 | 0.5 - 1.6 | 1000 |
| WS-SE3-1-01 | — | — | 7 | | | | | | | 0.314 | 8.0 | 0.062 - 0.102 | 1.6 - 2.6 | 1000 |
| LWS-SE2-1-01 | — | RU | 8 | 0.270 | 6.9 | 0.380 | 9.7 | 0.670 | 17.0 | 0.187 | 4.8 | 0.020 - 0.063 | 0.5 - 1.6 | 1000 |
| LWS-SE2-2-01 | — | RU | 8 | 0.400 | 10.2 | 0.530 | 13.5 | 0.820 | 20.8 | 0.187 | 4.8 | 0.020 - 0.063 | 0.5 - 1.6 | 1000 |

WS / WWS / WSBH
Wire Saddle



Specifications:

- Material: Nylon 6/6
- Color: Natural
- Depth: 0.220 (5.6)

Features:

- Gathers & routes cables or wires
- WS-9 parts have a quarter turn design
- WSBH parts are designed to mount in blind holes

| Item No. | | Approval | Figure | A Ref. | | B Ref. | | Mounting Hole Ø | | Panel Thickness | | Bulk Pack Qty. |
|-------------|-------------|----------|--------|--------|------|--------|------|-----------------|-----|-----------------|-----------|----------------|
| UL94V-2 | UL94 V-0 | | | In | mm | In | mm | In | mm | In | mm | |
| WS-9-1-01 | — | — | 5 | 0.510 | 13.0 | 0.190 | 4.8 | | | 0.031 - 0.063 | 0.8 - 1.6 | 1000 |
| WS-1-01 | WS-1-19 | RU | 1 | 0.520 | 13.2 | 0.190 | 4.8 | 0.187 | 4.8 | 0.062 | 1.6 | 1000 |
| WS-A-1-01 | WS-A-1-19 | RU | 2 | 0.520 | 13.2 | 0.190 | 4.8 | 0.187 | 4.8 | 0.062 | 1.6 | 1000 |
| WSBH-1-01 | — | RU | 4 | 0.520 | 13.2 | 0.190 | 4.8 | .312 | 7.9 | 0.250 | 6.4 | 1000 |
| WS-9-2-01 | — | — | 5 | 0.700 | 17.8 | 0.390 | 10.0 | | | 0.031 - 0.063 | 0.8 - 1.6 | 1000 |
| WS-2-01 | WS-2-19 | RU | 1 | 0.710 | 18.0 | 0.380 | 9.7 | 0.187 | 4.8 | 0.062 | 1.6 | 1000 |
| WS-A-2-01 | WS-A-2-19 | RU | 2 | 0.710 | 18.0 | 0.380 | 9.7 | 0.187 | 4.8 | 0.062 | 1.6 | 1000 |
| WS-A-2-1-01 | WS-A-2-1-19 | RU | 2 | 0.710 | 18.0 | 0.380 | 9.7 | 0.187 | 4.8 | 0.062 | 1.6 | 1000 |
| WS-A-2-2-01 | WS-A-2-2-19 | RU | 2 | 0.710 | 18.0 | 0.380 | 9.7 | 0.187 | 4.8 | 0.125 | 3.2 | 1000 |
| WSBH-2-01 | — | RU | 4 | 0.710 | 18.0 | 0.380 | 9.7 | 0.312 | 7.9 | 0.250 | 6.4 | 1000 |
| WWS-A-2-01 | WWS-A-2-19 | RU | 3 | 0.770 | 19.6 | 0.500 | 12.7 | 0.187 | 4.8 | 0.047 | 1.19 | 1000 |
| WS-9-3-01 | — | — | 5 | 1.060 | 26.9 | 0.750 | 19.1 | | | 0.031 - 0.063 | 0.8 - 1.6 | 1000 |
| WS-3-01 | WS-3-19 | RU | 1 | 1.070 | 27.2 | 0.740 | 18.8 | 0.187 | 4.8 | 0.062 | 1.6 | 1000 |
| WS-A-3-01 | WS-A-3-19 | RU | 2 | 1.070 | 27.2 | 0.740 | 18.8 | 0.187 | 4.8 | 0.062 | 1.6 | 1000 |
| WS-A-2-3-01 | WS-A-2-3-19 | RU | 2 | 1.070 | 27.2 | 0.740 | 18.8 | 0.187 | 4.8 | 0.125 | 3.2 | 1000 |
| WSBH-3-01 | — | RU | 4 | 1.070 | 27.2 | 0.740 | 18.8 | 0.312 | 7.9 | 0.250 | 6.4 | 1000 |
| WWS-A-3-01 | WWS-A-3-19 | RU | 3 | 1.120 | 28.5 | 0.850 | 21.6 | 0.187 | 4.8 | 0.047 | 1.19 | 1000 |
| WS-9-4-01 | — | — | 5 | 1.370 | 34.8 | 1.070 | 27.2 | | | 0.031 - 0.063 | 0.8 - 1.6 | 1000 |
| WS-4-01 | WS-4-19 | RU | 1 | 1.380 | 35.0 | 1.050 | 26.7 | 0.187 | 4.8 | 0.062 | 1.6 | 1000 |
| WS-A-4-01 | WS-A-4-19 | RU | 2 | 1.380 | 35.0 | 1.050 | 26.7 | 0.187 | 4.8 | 0.062 | 1.6 | 1000 |
| WS-A-2-4-01 | WS-A-2-4-19 | RU | 2 | 1.380 | 35.0 | 1.050 | 26.7 | 0.187 | 4.8 | 0.125 | 3.2 | 1000 |
| WSBH-4-01 | — | — | 4 | 1.380 | 35.0 | 1.050 | 26.7 | 0.312 | 7.9 | 0.250 | 6.4 | 1000 |



WIRE SADDLES

WS-SR / LWS-SR Wire Saddle - Snap Rivet Mount

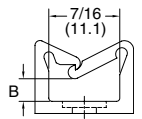
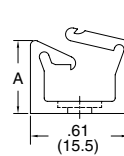
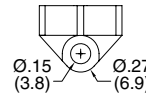
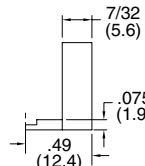
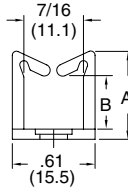


Figure 2

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Designed to mount easily on chassis with plastic SR rivet (see table) or a #6 screw
- Allows mounting to a wide range of panel thicknesses; up to 0.219" thick

| Item No. | Figure | A | | B | | Mounting Hole Ø | | Bulk Pack Qty. |
|-------------|--------|-------|------|-------|------|-----------------|-----------|----------------|
| | | In | mm | In | mm | In | mm | |
| WS-SR-1-01 | 1 | 0.450 | 11.4 | 0.170 | 4.3 | 0.142 - 0.146 | 3.6 - 3.7 | 1000 |
| LWS-SR-1-01 | 2 | 0.450 | 11.4 | 0.140 | 3.6 | 0.142 - 0.146 | 3.6 - 3.7 | 1000 |
| WS-SR-2-01 | 1 | 0.640 | 16.3 | 0.360 | 9.1 | 0.142 - 0.146 | 3.6 - 3.7 | 1000 |
| LWS-SR-2-01 | 2 | 0.640 | 16.3 | 0.340 | 8.6 | 0.142 - 0.146 | 3.6 - 3.7 | 1000 |
| WS-SR-3-01 | 1 | 1.000 | 25.4 | 0.730 | 18.5 | 0.142 - 0.146 | 3.6 - 3.7 | 1000 |
| LWS-SR-3-01 | 2 | 1.000 | 25.4 | 0.720 | 18.3 | 0.142 - 0.146 | 3.6 - 3.7 | 1000 |
| WS-SR-4-01 | 1 | 1.310 | 33.3 | 1.040 | 26.4 | 0.142 - 0.146 | 3.6 - 3.7 | 1000 |
| LWS-SR-4-01 | 2 | 1.310 | 33.3 | 1.000 | 25.4 | 0.142 - 0.146 | 3.6 - 3.7 | 1000 |

| Use Essentra Rivet Number | Chassis Thickness Range | |
|---------------------------|-------------------------|-----------|
| | In | mm |
| SR-3535 | .010 - .046 | 0.3 - 1.2 |
| SR-3545 | .046 - .081 | 1.2 - 2.1 |
| SR-3550 | .069 - .105 | 1.8 - 2.7 |
| SR-3555 | .081 - .120 | 2.1 - 3.7 |
| SR-3560 | .109 - .144 | 2.8 - 3.7 |
| SR-3570 | .140 - .180 | 3.6 - 4.6 |
| SR-3580 | .180 - .219 | 4.6 - 5.6 |

LWS / WSLT Locking Wire/Cable Saddle

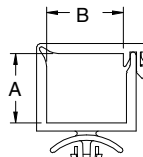


Figure 1

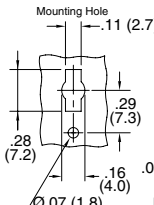


Figure 2

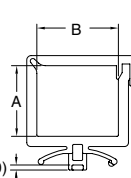


Figure 3

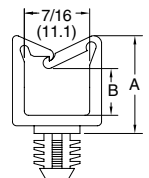
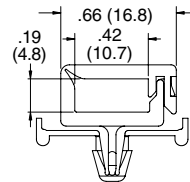


Figure 4

Specifications:

- Material: Nylon 6/6
- Color: Natural

Features:

- Cables are locked in place yet easily removable
- WSLT-9 & LWS-9 include a quarter-turn base
- WSLTRA has a releasable arrow-head for easy removal

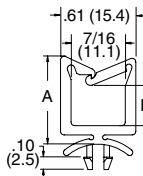


Figure 5

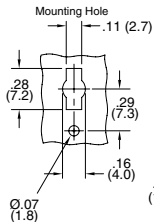


Figure 6

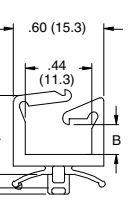


Figure 7

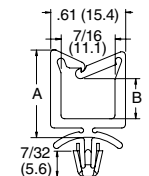
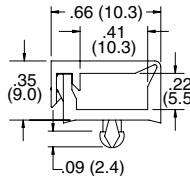
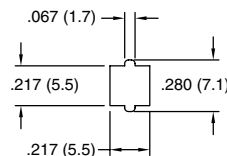
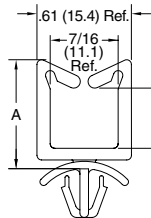


Figure 8

| Item No. | UL94 V-2 | UL94 V-0 | Approval | Figure | A | | B | | Mounting Hole Ø | | Panel Thickness | | Bulk Pack Qty. |
|-----------------|-----------------|----------|----------|--------|-------|------|-------|------|--------------------------|---------------|-----------------|------------|----------------|
| | | | | | In | mm | In | mm | In | mm | In | mm | |
| WSLT-3.5-2-1-01 | WSLT-3.5-2-1-19 | — | — | 1 | 0.140 | 3.4 | 0.530 | 13.5 | 0.138 | 3.5 | 0.031 - 0.078 | 0.8 - 2.0 | 1000 |
| WSLT-9-02-1-01 | — | — | — | 2 | 0.140 | 3.4 | 0.530 | 13.5 | 0.187 | 4.8 | 0.031 - 0.078 | 0.8 - 1.98 | 1000 |
| WSLT-01A-01 | WSLT-01A-19 | — | — | 1 | 0.190 | 4.8 | 0.420 | 10.7 | 0.187 | 4.8 | 0.031 - 0.078 | 0.8 - 1.98 | 1000 |
| WSLT-9-01A-01 | — | — | — | 2 | 0.190 | 4.8 | 0.420 | 10.7 | See Mounting Hole Detail | 0.031 - 0.063 | 0.8 - 1.6 | 1000 | |
| WSLT-01-2-01 | WSLT-01-2-19 | — | — | 1 | 0.350 | 8.8 | 0.420 | 10.7 | 0.187 | 4.8 | 0.031 - 0.078 | 0.8 - 1.98 | 1000 |
| WSLT-9-01-2-01 | — | — | — | 2 | 0.360 | 9.1 | 0.420 | 10.7 | See Mounting Hole Detail | 0.031 - 0.063 | 0.8 - 1.6 | 1000 | |
| WSLT-02A-01 | WSLT-02A-19 | — | — | 1 | 0.390 | 10.0 | 0.640 | 16.3 | 0.187 | 4.8 | 0.031 - 0.078 | 0.8 - 1.98 | 1000 |
| WSLT-9-02A-1-01 | — | — | — | 2 | 0.390 | 10.0 | 0.640 | 16.3 | See Mounting Hole Detail | 0.031 - 0.063 | 0.8 - 1.6 | 1000 | |
| LWS-9-1-01 | — | — | — | 6 | 0.510 | 13.0 | 0.150 | 3.8 | See Mounting Hole Detail | 0.031 - 0.063 | 0.8 - 1.6 | 1000 | |
| LWS-1-01 | LWS-1-19 | — | — | 4 | 0.520 | 13.2 | 0.140 | 3.6 | 0.187 | 4.8 | 0.062 | 1.6 | 1000 |
| LWSBH-1-01 | — | — | — | 5 | 0.520 | 13.2 | 0.140 | 3.6 | 0.312 | 7.9 | 0.250 | 6.4 | 1000 |
| LWS-A-1-01 | LWS-A-1-19 | — | — | 8 | 0.520 | 13.2 | 0.140 | 3.6 | 0.187 | 4.8 | 0.062 | 1.6 | 1000 |
| LWS-A-2-1-01 | LWS-A-2-1-19 | — | — | 8 | 0.520 | 13.2 | 0.140 | 3.6 | 0.187 | 4.8 | 0.125 | 3.2 | 1000 |
| WSLT-03-2-01 | WSLT-03-2-19 | — | — | 1 | 0.550 | 14.1 | 0.640 | 16.3 | 0.187 | 4.8 | 0.062 | 1.6 | 1000 |
| WSLT-9-03-2-01 | — | — | — | 2 | 0.560 | 14.1 | 0.640 | 16.3 | See Mounting Hole Detail | 0.031 - 0.063 | 0.8 - 1.6 | 1000 | |
| LWS-2-01 | LWS-2-19 | — | — | 4 | 0.710 | 18.0 | 0.330 | 8.4 | 0.187 | 4.8 | 0.062 | 1.6 | 1000 |
| LWSBH-2-01 | — | — | — | 5 | 0.710 | 18.0 | 0.330 | 8.4 | 0.312 | 7.9 | 0.250 | 6.4 | 1000 |
| LWS-9-2-01 | — | — | — | 6 | 0.710 | 18.0 | 0.390 | 9.8 | See Mounting Hole Detail | 0.031 - 0.063 | 0.8 - 1.6 | 1000 | |
| LWS-A-2-01 | LWS-A-2-19 | — | — | 8 | 0.710 | 18.0 | 0.330 | 8.4 | 0.187 | 4.8 | 0.062 | 1.6 | 1000 |
| LWS-A-2-2-01 | LWS-A-2-2-19 | — | — | 8 | 0.710 | 18.0 | 0.330 | 8.4 | 0.187 | 4.8 | 0.125 | 3.2 | 1000 |
| WSLT-03-3-01 | WSLT-03-3-19 | — | — | 1 | 0.850 | 21.7 | 0.710 | 18.0 | 0.187 | 4.8 | 0.031 - 0.078 | 0.8 - 1.98 | 1000 |
| WSLT-9-03-3-01 | — | — | — | 2 | 0.850 | 21.7 | 0.710 | 18.0 | See Mounting Hole Detail | 0.031 - 0.063 | 0.8 - 1.6 | 1000 | |
| WSLTRA-1-01 | — | — | — | 3 | — | — | — | — | 0.187 | 4.8 | 0.062 | 1.6 | 1000 |
| LWS-3-01 | LWS-3-19 | — | — | 4 | 1.070 | 27.2 | 0.690 | 17.5 | 0.187 | 4.8 | 0.062 | 1.6 | 1000 |
| LWSBH-3-01 | — | — | — | 5 | 1.070 | 27.2 | 0.690 | 17.5 | 0.312 | 7.9 | 0.250 | 6.4 | 1000 |
| LWS-9-3-01 | — | — | — | 6 | 1.070 | 27.2 | 0.750 | 19.0 | See Mounting Hole Detail | 0.031 - 0.063 | 0.8 - 1.6 | 1000 | |
| LWS-A-3-01 | LWS-A-3-19 | — | — | 8 | 1.070 | 27.2 | 0.690 | 17.5 | 0.187 | 4.8 | 0.062 | 1.6 | 1000 |
| LWS-A-2-3-01 | LWS-A-2-3-19 | — | — | 8 | 1.070 | 27.2 | 0.690 | 17.5 | 0.187 | 4.8 | 0.125 | 3.2 | 1000 |
| LWS-4-01 | LWS-4-19 | — | — | 4 | 1.380 | 35.0 | 1.000 | 25.4 | 0.187 | 4.8 | 0.062 | 1.6 | 1000 |
| LWSBH-4-01 | — | — | — | 5 | 1.380 | 35.0 | 1.000 | 25.4 | 0.312 | 7.9 | 0.250 | 6.4 | 1000 |
| LWS-9-4-01 | — | — | — | 6 | 1.380 | 35.1 | 1.060 | 26.8 | See Mounting Hole Detail | 0.031 - 0.063 | 0.8 - 1.6 | 1000 | |
| WSLT-T-01A-19 | — | — | — | 7 | — | — | — | — | 0.118 | 3.0 | 0.065 | 1.7 | 1000 |
| LWS-A-4-01 | LWS-A-4-19 | — | — | 8 | 1.380 | 35.0 | 1.000 | 25.4 | 0.187 | 4.8 | 0.062 | 1.6 | 1000 |
| LWS-A-2-4-01 | LWS-A-2-4-19 | — | — | 8 | 1.380 | 35.0 | 1.000 | 25.4 | 0.187 | 4.8 | 0.125 | 3.2 | 1000 |



WS-SH
Wire Saddle, Square Hole Mount



Mounting Hole

Specifications:

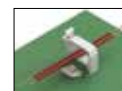
- Material: Nylon 6/6
- Color: Natural

Features:

- Mounts into a square hole to prevent rotation

| Item No. | | Approval | Panel Thickness | | A Ref. | | B Ref. | | Depth | | Bulk Pack Qty. |
|------------|------------|----------|-----------------|-----------|--------|------|--------|------|-------|-----|----------------|
| UL94 V-2 | UL94 V-0 | | In | mm | In | mm | In | mm | In | mm | |
| WS-SH-1-01 | WS-SH-1-19 | | .031 - .078 | 0.8 - 2.0 | 0.510 | 13.0 | 0.190 | 4.8 | 0.219 | 5.6 | 1000 |
| WS-SH-2-01 | WS-SH-2-19 | | .031 - .078 | 0.8 - 2.0 | 0.700 | 17.8 | 0.390 | 10.0 | 0.219 | 5.6 | 1000 |
| WS-SH-3-01 | WS-SH-3-19 | | .031 - .078 | 0.8 - 2.0 | 1.060 | 26.9 | 0.750 | 19.1 | 0.219 | 5.6 | 1000 |
| WS-SH-4-01 | WS-SH-4-19 | | .031 - .078 | 0.8 - 2.0 | 1.370 | 34.8 | 1.070 | 27.2 | 0.219 | 5.6 | 1000 |

SMWSLT
Side Mount Wire Saddle

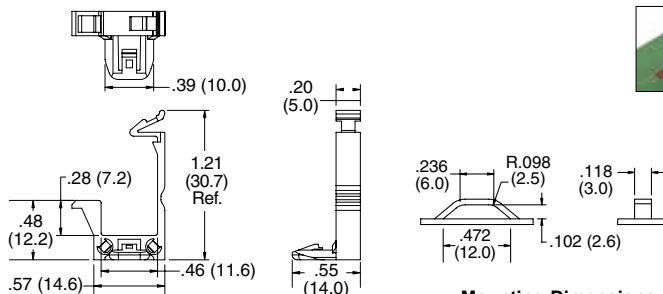


Specifications:

- Material: UL94 V-0 Nylon 6/6
- Color: Natural

Features:

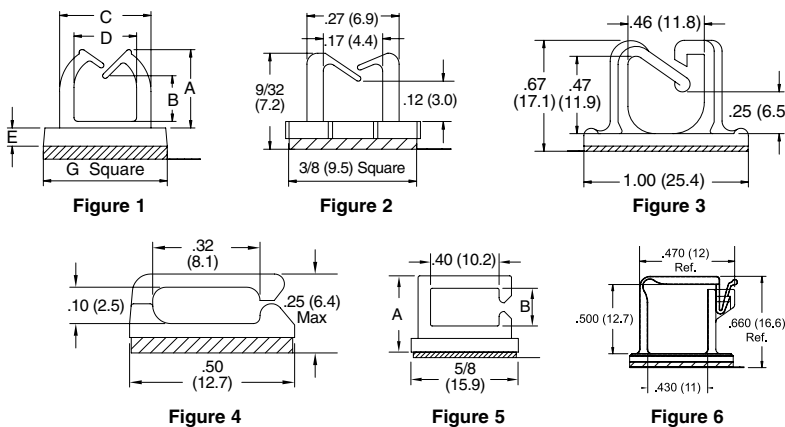
- No protrusion through the chassis
- No risk of rotation
- Easy to install
- Removable by depressing locking tab
- Cables are locked in place yet easily removed



Mounting Dimensions

| Item No. | Bulk Pack Qty. |
|-------------|----------------|
| SMWSLT-1-19 | 1000 |

MWSEB / WSB / MWSB / WS-SE-B
Wire Saddle on Adhesive Base



Specifications:

- Material: Nylon 6/6
- Color: Natural

Features:

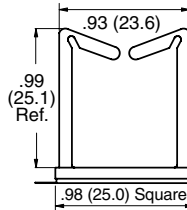
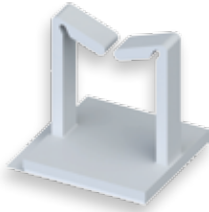
- Self adhesive wire saddle is designed to support lightweight wire bundles
- Small profile design is ideal for routing fiber

| Item No. | | Approval | Figure | A Ref. | | B Ref. | | C Ref. | | D Ref. | | E Ref. | | G Ref. | | Depth | | Bulk Pack Qty. |
|-----------------|-----------------|----------|--------|--------|------|--------|------|--------|------|--------|-----|--------|-----|--------|--------------|------------|------|----------------|
| UL94 V-2 | UL94 V-0 | | | In | mm | In | mm | In | mm | In | mm | In | mm | In | mm | In | mm | |
| MWSEB-1-01A-RT | MWSEB-1-19A-RT | | 1 | 0.160 | 4.0 | 0.050 | 1.3 | 0.280 | 7.0 | 0.190 | 4.8 | 0.060 | 1.6 | 0.370 | 9.5 | See Fig. 1 | 1000 | |
| MWSEB-2-01A-RT | MWSEB-2-19A-RT | | 1 | 0.240 | 6.0 | 0.130 | 3.3 | 0.280 | 7.0 | 0.190 | 4.8 | 0.060 | 1.6 | 0.370 | 9.5 | See Fig. 1 | 1000 | |
| MWSEB-3-01A-RT | MWSEB-3-19A-RT | | 1 | 0.290 | 7.3 | 0.120 | 3.0 | 0.350 | 9.0 | 0.260 | 6.6 | 0.080 | 2.0 | 0.500 | 12.7 | See Fig. 1 | 1000 | |
| MWSEB-4-01A-RT | MWSEB-4-19A-RT | | 1 | 0.360 | 9.2 | 0.190 | 4.8 | 0.430 | 10.8 | 0.320 | 8.0 | 0.080 | 2.0 | 0.500 | 12.7 | See Fig. 1 | 1000 | |
| MWSEB-5-01A-RT | MWSEB-5-19A-RT | | 1 | 0.440 | 11.2 | 0.230 | 5.8 | 0.470 | 11.9 | 0.360 | 9.1 | 0.080 | 2.0 | 0.500 | 12.7 | See Fig. 1 | 1000 | |
| MWSEB-6-01A-RT | MWSEB-6-19A-RT | | 1 | 0.510 | 13.0 | 0.330 | 8.4 | 0.470 | 12.0 | 0.360 | 9.2 | 0.080 | 2.0 | 0.500 | 12.7 | See Fig. 1 | 1000 | |
| MWSB-1-01A-RT | MWSB-1-19A-RT | | 2 | | | | | | | | | | | | See Figure 2 | 1000 | | |
| WSB-2-01A-RT | — | | 3 | | | | | | | | | | | | See Figure 3 | 0.480 | 12.1 | 1000 |
| MWSSEB-1-01A-RT | MWSSEB-1-19A-RT | | 4 | | | | | | | | | | | | See Figure 4 | 0.375 | 9.5 | 1000 |
| MWSSEBE-1-01A | MWSSEBE-1-19A | | 4 | | | | | | | | | | | | See Figure 4 | 0.500 | 12.7 | 1000 |
| WS-SE-B-1-01A | — | | 5 | 0.450 | 11.4 | 0.220 | 5.6 | | | | | | | | See Figure 5 | 0.375 | 9.5 | 1000 |
| WS-SE-B-2-01A | — | | 5 | 0.675 | 17.1 | 0.450 | 11.4 | | | | | | | | See Figure 5 | 0.375 | 9.5 | 1000 |
| WSLTB-03A-19A | — | — | 6 | | | | | | | | | | | | See Figure 6 | 0.750 | 19.0 | 1000 |



WIRE SADDLES

WWSB Wire Saddle on Adhesive Base



Specifications:

- Material: UL94 HB Nylon 6/6
- Color: Natural

Features:

- No through-hole required
- Large capacity

| Item No. | Bulk Pack Qty. |
|----------------|----------------|
| WWSB-3-148A-RT | 500 |

OFNS Optical Fiber Wire Saddle

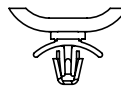
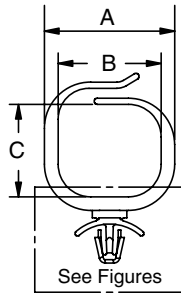


Figure 1
Ø.187



Figure 2
Ø.312



Figure 3
.307 Square

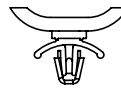


Figure 4
Ø.250

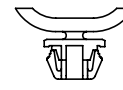


Figure 5
.374 Square

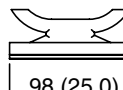


Figure 6



Specifications:

- Material: Nylon 6/6
- Color: Natural

Features:

- No stress is applied to fiber upon entry
- Smooth, rounded corners
- Six mounting styles

| Item No. | | Figure | A Ref. | | B Ref. | | C Ref. | | Mounting Hole Ø | | Panel Thickness | | Depth | | Bulk Pack Qty |
|-----------------|-----------------|--------|--------|------|--------|------|--------|------|-----------------|------------|-----------------|----------|-------|-----|---------------|
| UL94 V-2 | UL94 V-0 | | In | mm | In | mm | In | mm | In | mm | In | mm | In | mm | |
| OFNS-13-187-01 | OFNS-13-187-19 | 1 | 1.060 | 26.8 | 0.830 | 21.2 | 0.750 | 19.0 | 0.187 | 4.8 | .031-.079 | 0.8-2.0 | 0.270 | 6.9 | 1000 |
| OFNS-13-312-01 | OFNS-13-312-19 | 2 | 1.060 | 26.8 | 0.830 | 21.2 | 0.750 | 19.0 | 0.312 | 7.9 | .031-.063 | 0.8-1.6 | 0.270 | 6.9 | 1000 |
| OFNS-13-250-01 | OFNS-13-250-19 | 4 | 1.060 | 26.8 | 0.830 | 21.2 | 0.750 | 19.0 | 0.250 | 6.4 | .031-.079 | 0.8-2.0 | 0.270 | 6.9 | 1000 |
| OFNS13-S9.5M-01 | OFNS13-S9.5M-19 | 5 | 1.060 | 26.8 | 0.830 | 21.2 | 0.750 | 19.0 | .374 Square | 9.5 Square | .031-.079 | 0.8-2.0 | 0.270 | 6.9 | 1000 |
| OFNSB-13-01A-RT | OFNSB-13-19A-RT | 6 | 1.060 | 26.8 | 0.830 | 21.2 | 0.750 | 19.0 | Adhesive | Adhesive | Adhesive | Adhesive | 0.270 | 6.9 | 500 |
| OFNS-16-187-01 | OFNS-16-187-19 | 1 | 1.350 | 34.3 | 1.130 | 28.7 | 0.990 | 25.1 | 0.187 | 4.8 | .031-.079 | 0.8-2.0 | 0.270 | 6.9 | 1000 |
| OFNS-16-312-01 | OFNS-16-312-19 | 2 | 1.350 | 34.3 | 1.130 | 28.7 | 0.990 | 25.1 | 0.312 | 7.9 | .031-.063 | 0.8-1.6 | 0.270 | 6.9 | 1000 |
| OFNS-16-S307-01 | OFNS-16-S307-19 | 3 | 1.350 | 34.3 | 1.130 | 28.7 | 0.990 | 25.1 | .307 Square | 7.8 Square | .031-.079 | 0.8-2.0 | 0.270 | 6.9 | 1000 |
| OFNS16-S9.5M-01 | OFNS16-S9.5M-19 | 4 | 1.350 | 34.3 | 1.130 | 28.7 | 0.990 | 25.1 | .374 Square | 9.5 Square | .031-.079 | 0.8-2.0 | 0.270 | 6.9 | 1000 |
| OFNSB-16-01A-RT | OFNSB-16-19A-RT | 6 | 1.350 | 34.3 | 1.130 | 28.7 | 0.990 | 25.1 | Adhesive | Adhesive | Adhesive | Adhesive | 0.270 | 6.9 | 500 |
| OFNS28-S9.5M-01 | OFNS28-S9.5M-19 | 5 | 1.350 | 34.3 | 1.130 | 28.7 | 0.990 | 25.1 | .374 Square | 9.5 Square | .031-.079 | 0.8-2.0 | 0.270 | 6.9 | 500 |

MOFNSA / MOFNPS / MOFNBSB Mini Optical Fiber Wire Saddle

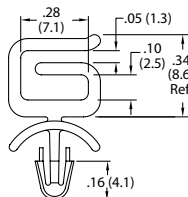
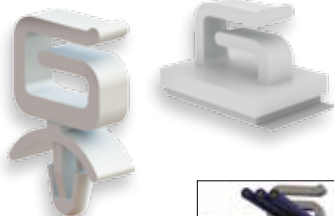


Figure 1

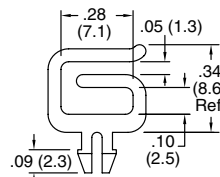
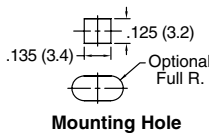


Figure 2



Mounting Hole

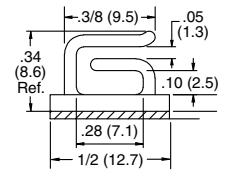


Figure 3



Specifications:

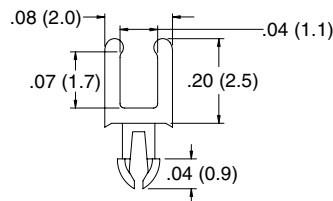
- Material: Nylon 6/6
- Color: Natural

Features:

- Design eliminates stress to fiber upon entry
- Smooth, rounded corners

| Item No. | | Figure | Mounting Hole Ø | | Panel Thickness | | Depth | | Bulk Pack Qty |
|------------------|------------------|--------|-----------------|-----|-----------------|-----|-------|-----|---------------|
| UL94 V-2 | UL94 V-0 | | In | mm | In | mm | In | mm | |
| MOFNSA-2-01 | MOFNSA-2-19 | 1 | 0.125 | 3.2 | 0.093 | 2.4 | 0.125 | 3.2 | 1000 |
| MOFNPS-2-01 | MOFNPS-2-19 | 2 | See Figure 2 | | 0.063 | 1.6 | 0.125 | 3.2 | 1000 |
| MOFNBSB-2-01A-RT | MOFNBSB-2-19A-RT | 3 | Adhesive Mount | | | | 0.375 | 9.5 | 1000 |

PWS Pico Wire Saddle



Specifications:

- Material: UL94 V-0 Heat Stabilized, Nylon 6/6
- Color: Natural

Features:

- Gathers and routes fiber optic wires
- Routes up to two 900 micron fibers

| Item No. | Mounting Hole Ø | | Panel Thickness | | Depth | | Bulk Pack Qty. |
|-----------|-----------------|-----|-----------------|-----|-------|-----|----------------|
| | In | mm | In | mm | In | mm | |
| PWS-1-104 | 0.040 | 1.0 | 0.040 | 1.0 | 0.049 | 1.3 | 1000 |



MWS
Micro Wire Saddle

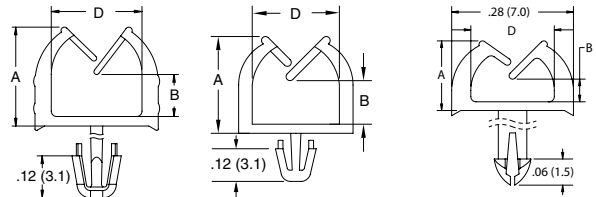
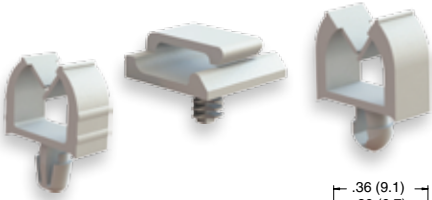


Figure 1 Figure 2 Figure 3

- Specifications:
- Material: Nylon 6/6
 - Color: Natural

- Features:
- Gathers and routes wires
 - Small profile is ideal for routing fiber

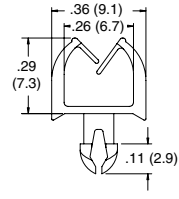


Figure 4

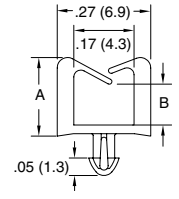


Figure 5

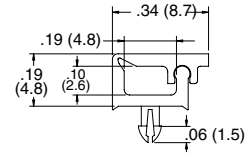


Figure 6

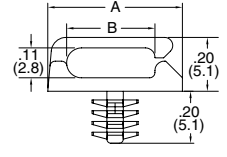


Figure 7

| Item No. | | Approval | Figure | A Ref. | | B Ref. | | D | | Mounting Hole Ø | | Panel Thickness | | Bulk Pack Qty. |
|----------------|---------------|----------|--------|--------|------|--------------|------|--------------|-------|-----------------|---------------|-----------------|-----------|----------------|
| UL94 V-2 | UL94 V-0 | | | In | mm | In | mm | In | mm | In | mm | In | mm | |
| MWSET1-1-01 | MWSET1-1-19 | RU | 3 | 0.160 | 4.0 | 0.040 | 0.9 | 0.190 | 4.8 | 0.067 | 1.7 | 0.063 | 1.6 | 1000 |
| MWSET1-1-1-01 | MWSET1-1-1-19 | RU | 3 | 0.160 | 4.0 | 0.040 | 0.9 | 0.190 | 4.8 | 0.067 | 1.7 | 0.093 | 2.4 | 1000 |
| MWS-1-01 | MWS-1-19 | RU | 5 | 0.230 | 5.8 | 0.120 | 3.0 | See Figure 5 | 0.070 | 1.8 | 0.062 | 1.6 | 1000 | |
| MWS1-1-01 | MWS1-1-19 | — | 5 | 0.230 | 5.8 | 0.120 | 3.0 | See Figure 5 | 0.070 | 1.8 | 0.093 | 2.4 | 1000 | |
| MWSET1-2-01 | MWSET1-2-19 | RU | 3 | 0.240 | 6.0 | 0.110 | 2.9 | 0.190 | 4.8 | 0.067 | 1.7 | 0.063 | 1.6 | 1000 |
| MWSET1-2-1-01 | MWSET1-2-1-19 | RU | 3 | 0.240 | 6.0 | 0.110 | 2.9 | 0.190 | 4.8 | 0.067 | 1.7 | 0.093 | 2.4 | 1000 |
| MWSEA1-1-01 | MWSEA1-1-19 | RU | 1 | 0.290 | 7.3 | 0.120 | 3.0 | 0.260 | 6.6 | 0.118 | 3.0 | 0.063 | 1.6 | 1000 |
| MWSEA2-1-01 | MWSEA2-1-19 | RU | 1 | 0.290 | 7.3 | 0.120 | 3.0 | 0.260 | 6.6 | 0.138 | 3.5 | 0.063 | 1.6 | 1000 |
| MWSEA1-1-1-01 | MWSEA1-1-1-19 | RU | 1 | 0.290 | 7.3 | 0.120 | 3.0 | 0.260 | 6.6 | 0.118 | 3.0 | 0.093 | 2.4 | 1000 |
| MWSEA2-1-1-01 | MWSEA2-1-1-19 | RU | 1 | 0.290 | 7.3 | 0.120 | 3.0 | 0.260 | 6.6 | 0.138 | 3.5 | 0.093 | 2.4 | 1000 |
| MWSEA1-2-01 | MWSEA1-2-19 | RU | 1 | 0.360 | 9.1 | 0.160 | 3.9 | 0.320 | 8.1 | 0.118 | 3.0 | 0.063 | 1.6 | 1000 |
| MWSEA2-2-01 | MWSEA2-2-19 | RU | 1 | 0.360 | 9.1 | 0.160 | 3.9 | 0.320 | 8.1 | 0.138 | 3.5 | 0.063 | 1.6 | 1000 |
| MWSEA1-1-2-01 | MWSEA1-1-2-19 | RU | 1 | 0.360 | 9.1 | 0.160 | 3.9 | 0.320 | 8.1 | 0.118 | 3.0 | 0.093 | 2.4 | 1000 |
| MWSEA2-1-2-01 | MWSEA2-1-2-19 | RU | 1 | 0.360 | 9.1 | 0.160 | 3.9 | 0.320 | 8.1 | 0.138 | 3.5 | 0.093 | 2.4 | 1000 |
| MWSEA3-2-01 | MWSEA3-2-19 | RU | 2 | 0.360 | 9.1 | 0.160 | 3.9 | 0.320 | 8.1 | 0.138 | 3.5 | 0.063 | 1.6 | 1000 |
| MWSEA1-3-01 | MWSEA1-3-19 | RU | 1 | 0.440 | 11.2 | 0.240 | 6.0 | 0.360 | 9.1 | 0.118 | 3.0 | 0.063 | 1.6 | 1000 |
| MWSEA2-3-01 | MWSEA2-3-19 | RU | 1 | 0.440 | 11.2 | 0.240 | 6.0 | 0.360 | 9.1 | 0.138 | 3.5 | 0.063 | 1.6 | 1000 |
| MWSEA1-1-3-01 | MWSEA1-1-3-19 | RU | 1 | 0.440 | 11.2 | 0.240 | 6.0 | 0.360 | 9.1 | 0.118 | 3.0 | 0.093 | 2.4 | 1000 |
| MWSEA2-1-3-01 | MWSEA2-1-3-19 | RU | 1 | 0.440 | 11.2 | 0.240 | 6.0 | 0.360 | 9.1 | 0.138 | 3.5 | 0.093 | 2.4 | 1000 |
| — | MWS-2-19 | — | 5 | 0.440 | 11.2 | 0.330 | 8.5 | See Figure 5 | 0.070 | 1.8 | 0.063 | 1.6 | 1000 | |
| — | MWS-3-19 | — | 5 | 0.440 | 11.2 | 0.330 | 8.5 | See Figure 5 | 0.070 | 1.8 | 0.087 | 2.2 | 1000 | |
| MWSEA1-4-01 | MWSEA1-4-19 | RU | 1 | 0.510 | 13.0 | 0.300 | 7.7 | 0.360 | 9.1 | 0.118 | 3.0 | 0.063 | 1.6 | 1000 |
| MWSEA2-4-01 | MWSEA2-4-19 | RU | 1 | 0.510 | 13.0 | 0.300 | 7.7 | 0.360 | 9.1 | 0.138 | 3.5 | 0.063 | 1.6 | 1000 |
| MWSEA1-1-4-01 | MWSEA1-1-4-19 | RU | 1 | 0.510 | 13.0 | 0.300 | 7.7 | 0.360 | 9.1 | 0.118 | 3.0 | 0.093 | 2.4 | 1000 |
| MWSEA2-1-4-01 | MWSEA2-1-4-19 | RU | 1 | 0.510 | 13.0 | 0.300 | 7.7 | 0.360 | 9.1 | 0.138 | 3.5 | 0.093 | 2.4 | 1000 |
| MWSET2-1-01 | MWSET2-1-19 | RU | 4 | | | See Figure 4 | | | | 0.118 | 3.0 | 0.039 - 0.047 | 1.0 - 1.2 | 1000 |
| MWSET2-2-01 | MWSET2-2-19 | RU | 4 | | | See Figure 4 | | | | 0.118 | 3.0 | 0.047 - 0.063 | 1.2 - 1.6 | 1000 |
| MWSLT1-01 | MWSLT1-19 | — | 6 | | | See Figure 6 | | | | 0.067 | 1.7 | 0.063 | 1.6 | 1000 |
| MWSLT1-1-01 | MWSLT1-1-19 | — | 6 | | | See Figure 6 | | | | 0.067 | 1.7 | 0.093 | 2.4 | 1000 |
| MBHWSSE-1-01 | — | — | 7 | 0.500 | 12.7 | 0.330 | 0.8 | See Figure 7 | 0.156 | 4.0 | 0.040 - 0.160 | 1.0 - 4.1 | 1000 | |
| MBHWSSE-1-1-01 | — | — | 7 | 0.670 | 17.0 | 0.490 | 12.5 | See Figure 7 | 0.156 | 4.0 | 0.040 - 0.160 | 1.0 - 4.1 | 1000 | |

MWSELF / SMWS
Standoff Micro Wire Saddle

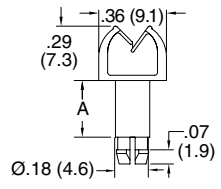
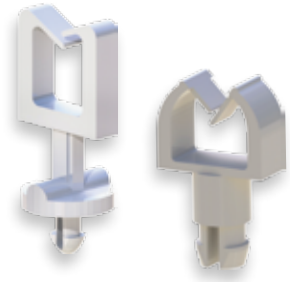


Figure 1

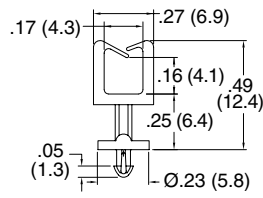


Figure 2



- Specifications:
- Material: Nylon 6/6
 - Color: Natural

- Features:
- Gathers and routes wires
 - Standoff design provides spacing between the wires and the chassis

| Item No. | | Figure | A | | Mounting Hole Ø | | Panel Thickness | | Bulk Pack Qty. |
|-----------------|-----------------|--------|--------------|-----|-----------------|-----|-----------------|-----|----------------|
| UL94 V-2 | UL94 V-0 | | In | mm | In | mm | In | mm | |
| MWSELF-1-4.1-01 | MWSELF-1-4.1-19 | 1 | 0.160 | 4.1 | 0.150 | 3.8 | 0.063 | 1.6 | 1000 |
| MWSELF-1-7.7-01 | MWSELF-1-7.7-19 | 1 | 0.300 | 7.7 | 0.150 | 3.8 | 0.063 | 1.6 | 1000 |
| MWSELF-2-4.1-01 | MWSELF-2-4.1-19 | 1 | 0.160 | 4.1 | 0.150 | 3.8 | 0.079 | 2.0 | 1000 |
| MWSELF-2-7.7-01 | MWSELF-2-7.7-19 | 1 | 0.300 | 7.7 | 0.150 | 3.8 | 0.079 | 2.0 | 1000 |
| SMWS-1-01 | SMWS-1-19 | 2 | See Figure 2 | | 0.070 | 1.8 | 0.062 | 1.6 | 1000 |
| SMWS1-1-01 | SMWS1-1-19 | 2 | See Figure 2 | | 0.070 | 1.8 | 0.093 | 2.4 | 1000 |



WIRE SADDLES & FLAT CABLE CLAMPS

WSLTB / MWSLTB Wire Saddle Locking Top

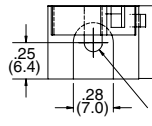
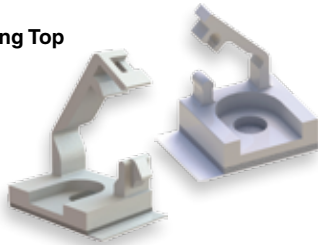


Figure 1

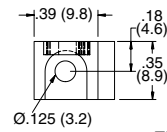
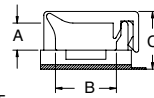


Figure 2



Specifications:

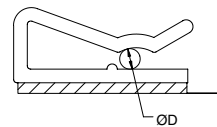
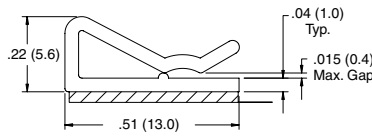
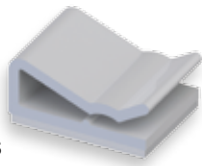
- Material: UL94 V-0 Nylon 6/6
- Color: Natural

Features:

- Gathers, routes and locks cables and wires

| Item No. | Mounting Method | Figure | A | | B | | C Ref. | | Bulk Pack Qty. |
|-----------------|---------------------------------|--------|-------|------|--------------|------|--------|------|----------------|
| | | | In | mm | In | mm | In | mm | |
| WSLTB-01A-19A | Adhesive | 1 | 0.190 | 4.8 | 0.420 | 10.7 | 0.410 | 10.4 | 1000 |
| WSLTB-01A-19 | #4 or M3 Screw or SR-30XX Rivet | 1 | 0.190 | 4.8 | 0.420 | 10.7 | 0.380 | 9.6 | 1000 |
| WSLTB-02A-19A | Adhesive | 1 | 0.390 | 10.0 | 0.640 | 16.3 | 0.610 | 15.5 | 1000 |
| WSLTB-02A-19 | #4 or M3 Screw or SR-30XX Rivet | 1 | 0.390 | 10.0 | 0.640 | 16.3 | 0.580 | 14.7 | 1000 |
| MWSLTB-1-19A-RT | Adhesive | 2 | | | See Figure 2 | | | | 1000 |
| MWSLTB-1-19 | #4 or M3 Screw or SR-30XX Rivet | 2 | | | See Figure 2 | | | | 1000 |

SWC Single Wire Clip



Specifications:

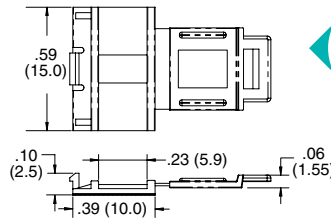
- Material: UL94 V-1 PPE/PS
- Color: White

Features:

- To insert or remove cable, simply lift the tip of the clamp

| Item No. | D Holding Ø | | Base | | Bulk Pack Qty. |
|----------|-------------|---------|---------------|------------|----------------|
| | In | mm | In | mm | |
| SWC-0 | .030-.060 | 0.8-1.5 | 0.510 x 0.380 | 13.0 x 9.5 | 1000 |

MCC Adhesive Mount Micro Cable Clamp



Specifications:

- Material: UL94 V-2 Nylon 6/6, Color: Black

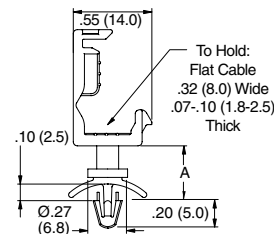
Features:

- Low profile and small footprint take up little real estate
- Center rib gently grips cables
- Convenient latch is releasable for maintenance
- Easily mounted with adhesive base



| Item No. | Max Cable Thickness | | Max Cable Width | | Bulk Pack Qty. |
|--------------|---------------------|----|-----------------|-----|----------------|
| | In | mm | In | mm | |
| MCC-1-01A-BK | 0.040 | 1 | 0.230 | 5.8 | 1000 |

FCWSS Flat Cable Wire Saddle



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Black

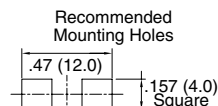
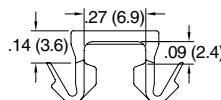
Features:

- Designed to hold down standard Serial ATA cable
- Flexible tension wing allows a range of cable thicknesses
- Grips cable firmly



| Item No. | A | | Panel Hole Ø | | Panel Thickness | | Bulk Pack Qty. |
|--------------|-------|------|--------------|-------|-----------------|-----------|----------------|
| | In | mm | In | mm | In | mm | |
| FCWSS-1-01BK | 0.189 | 4.8 | 0.158 | 4.000 | 0.032 - 0.064 | 0.8 - 1.6 | 1000 |
| FCWSS-2-01BK | 0.394 | 10.0 | 0.158 | 4.000 | 0.032 - 0.064 | 0.8 - 1.6 | 1000 |

FCCE Flat Cable Clamp



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Holds down ribbon cable
- Extremely low profile



| Item No. | Max. Cable Width | | Mounting Hole | | Panel Thickness | | Depth | | Bulk Pack Qty. |
|-----------|------------------|-----|---------------|-----|-----------------|-----------|-------|-----|----------------|
| | In | mm | In | mm | In | mm | In | mm | |
| FCCE-9-01 | 0.250 | 6.4 | 0.250 | 6.4 | .039 - .047 | 1.0 - 1.2 | 0.280 | 7.0 | 1000 |

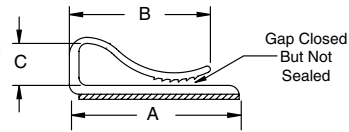
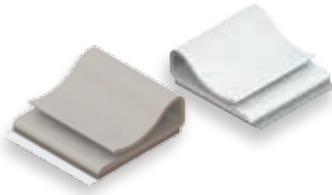
FLAT CABLE CLAMPS



CFCC Side Load Flat Cable Clamp

Features:

- Designed for routing flat ribbon cable
- Serrated grip prevents slippage
- Low profile

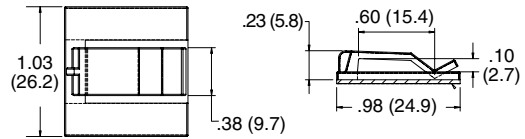
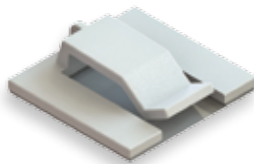


| Item No. | A | | B Ref. | | C | | Depth | | Material | Color | Bulk Pack Qty. |
|---------------|-------|------|--------|------|-------|-----|-------|------|-----------------|-------|----------------|
| | In | mm | In | mm | In | mm | In | mm | | | |
| CFCC-3-05A-RT | 0.563 | 14.3 | 0.490 | 12.5 | 0.180 | 4.6 | 1.000 | 25.4 | UL94 V-1 PPE/PS | White | 1000 |
| CFCC-4-05A-RT | 0.563 | 14.3 | 0.420 | 10.7 | 0.250 | 6.4 | 1.000 | 25.4 | UL94 V-1 PPE/PS | White | 1000 |
| CFCC-8-05A-RT | 1.062 | 27.0 | 0.880 | 22.4 | 0.250 | 6.4 | 1.000 | 25.4 | UL94 V-1 PPE/PS | White | 1000 |
| CFCC-8-04A-RT | 1.062 | 27.0 | 0.880 | 22.4 | 0.250 | 6.4 | 1.000 | 25.4 | UL94 V-0 PVC | Grey | 1000 |

CFCCS Split Flat Cable Clamp On Adhesive Base

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

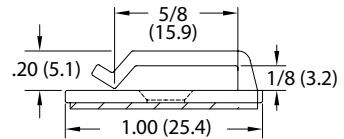
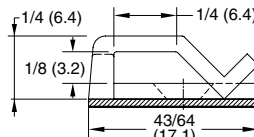


Features:

- Tension arm securely holds down flat ribbon cable

| Item No. | Bulk Pack Qty. |
|-------------|----------------|
| CFCCS-8-01A | 1000 |

SFCC Split Flat Cable Clamp



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Two tension arms hold flat ribbon cable firmly in place
- Easily installed with screw or adhesive

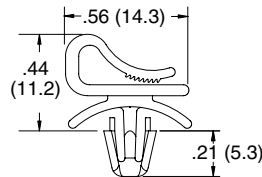
| Item No. | Base | | Mounting Method | Figure | Bulk Pack Qty. |
|---------------|---------------|-------------|----------------------------|--------|----------------|
| | In | mm | | | |
| SFCC-4-01 | 0.672 x 0.500 | 17.1 x 12.7 | #4 or M2.5 Flat Head Screw | 1 | 1000 |
| SFCC-4-01A-RT | 0.672 x 0.500 | 17.1 x 12.7 | Adhesive | 1 | 1000 |
| SFCC-8-01 | 1.000 x 1.000 | 25.4 x 25.4 | #6 or M3 Flat Head Screw | 2 | 1000 |
| SFCC-8-01A-RT | 1.000 x 1.000 | 25.4 x 25.4 | Adhesive | 2 | 1000 |



CFCCA Flat Cable Clamp

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural



Features:

- Designed for routing flat ribbon cable
- Serrated grip prevents slippage
- Low profile

| Item No. | Mounting Hole | | Panel Thickness | | Base | | Bulk Pack Qty. |
|------------|---------------|-----|-----------------|-----------|---------------|-------------|----------------|
| | In | mm | In | mm | In | mm | |
| CFCCA-1-01 | 0.187 | 4.8 | 0.310 - 0.078 | 0.8 - 2.0 | 0.560 x 0.630 | 14.3 x 15.9 | 1000 |

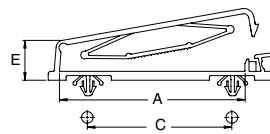
TFCCA Flat Cable Clamp with Tension

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Provides tension to flat ribbon cable to ensure stability
- Convenient releasable latch



| Item No. | Max # of Conductors | A | | C | | E | | Mounting Holes Ø | | Panel Thickness | | Depth | | Bulk Pack Qty. |
|-------------|---------------------|-------|------|-------|------|-------|------|------------------|-----|-----------------|-----------|-------|------|----------------|
| | | In | mm | In | mm | In | mm | In | mm | In | mm | In | mm | |
| TFCCA-15-01 | 10 | 0.570 | 14.5 | 0.591 | 15.0 | 0.560 | 14.1 | 0.156 | 4.0 | 0.040 - 0.079 | 1.0 - 2.0 | 0.360 | 9.1 | 100 |
| TFCCA-25-01 | 20 | 0.970 | 24.7 | 0.787 | 20.0 | 0.500 | 12.7 | 0.156 | 4.0 | 0.040 - 0.079 | 1.0 - 2.0 | 0.520 | 13.2 | 100 |
| TFCCA-40-01 | 40 | 2.130 | 54.1 | 1.575 | 40.0 | 0.640 | 16.3 | 0.156 | 4.0 | 0.040 - 0.079 | 1.0 - 2.0 | 0.390 | 10.0 | 100 |
| TFCCA-50-01 | 50 | 2.510 | 63.8 | 1.957 | 49.7 | 0.540 | 13.7 | 0.156 | 4.0 | 0.040 - 0.079 | 1.0 - 2.0 | 0.400 | 10.2 | 100 |



FLAT CABLE CLAMPS

TFCM

Flat Cable Clamp with Tension on Adhesive Base

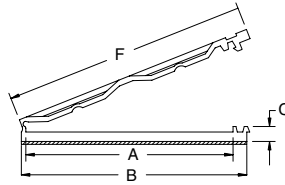


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Provides tension to flat ribbon cable to ensure stability
- Low profile where space is an issue
- Convenient releasable latch



| Item No. | A Ref. | | B Ref. | | C Ref. | | F Ref. | | Depth | | Suitable Cable | Bulk Pack Qty. |
|----------|--------|------|--------|------|--------|-----|--------|------|-------|------|----------------|----------------|
| | In | mm | In | mm | In | mm | In | mm | In | mm | | |
| TFCM-25S | 0.870 | 22.0 | 1.060 | 27.0 | 0.120 | 3.0 | 1.260 | 32.0 | 0.390 | 10.0 | 15 PIN | 200 |
| TFCM-25 | 1.150 | 29.3 | 1.440 | 36.5 | 0.120 | 3.0 | 1.570 | 40.0 | 0.390 | 10.0 | 20 PIN | 200 |
| TFCM-25M | 2.200 | 55.8 | 2.410 | 61.2 | 0.160 | 4.0 | 2.590 | 66.0 | 0.590 | 15.0 | 40 PIN | 100 |

TFCC

Flat Cable Clamp with Tension on Adhesive Base

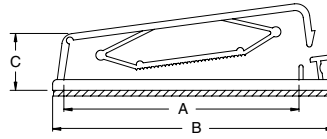
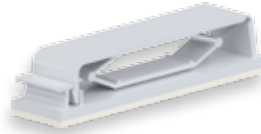


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Provides tension to flat ribbon cable to ensure stability
- Adhesive base for quick mounting



| Item No. | Max # Of Conductors | A Ref. | | B | | C | | Depth | | Bulk Pack Qty. |
|------------|---------------------|--------|------|-------|------|-------|------|-------|------|----------------|
| | | In | mm | In | mm | In | mm | In | mm | |
| TFCC-30-01 | 30 | 1.260 | 32.0 | 1.770 | 45.0 | 0.620 | 15.8 | 0.730 | 18.6 | 100 |
| TFCC-40-01 | 40 | 2.130 | 54.0 | 2.640 | 67.0 | 0.620 | 15.8 | 0.620 | 15.8 | 100 |
| TFCC-50-01 | 50 | 2.570 | 65.2 | 3.090 | 78.4 | 0.620 | 15.8 | 0.740 | 18.8 | 100 |

FCCS

Flat Cable Clamp

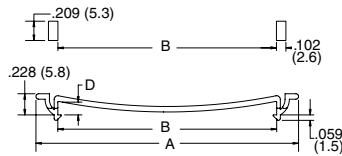


Specifications:

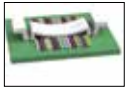
- Material: UL94 V-0 Nylon 6/6
- Color: Natural

Features:

- Very low profile
- Designed to firmly hold down flat ribbon cable
- Easily removable from the top of the panel



Mounting Holes



| Item No. | A | | B | | D | | Depth | | Bulk Pack Qty. |
|----------|-------|------|-------|------|-------|-----|-------|-----|----------------|
| | In | mm | In | mm | In | mm | In | mm | |
| FCCS-1 | 1.060 | 27.0 | 0.590 | 15.0 | 0.130 | 3.4 | 0.280 | 7.0 | 500 |
| FCCS-2 | 1.650 | 42.0 | 1.180 | 30.0 | 0.150 | 3.7 | 0.280 | 7.0 | 500 |
| FCCS-3 | 1.850 | 47.0 | 1.380 | 35.0 | 0.150 | 3.7 | 0.280 | 7.0 | 500 |
| FCCS-4 | 2.240 | 57.0 | 1.770 | 45.0 | 0.150 | 3.7 | 0.280 | 7.0 | 500 |
| FCCS-5 | 2.830 | 72.0 | 2.360 | 60.0 | 0.150 | 3.7 | 0.280 | 7.0 | 500 |

RDAFCC

Flat Cable Clamp

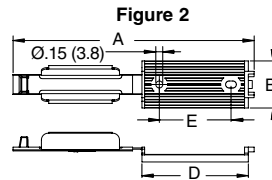
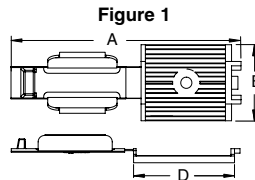
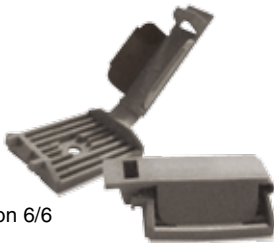


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Grey

Features:

- Low profile design
- Releasable latch for adding or removing flat ribbon cable
- Large mounting base for high bonding strength and stability

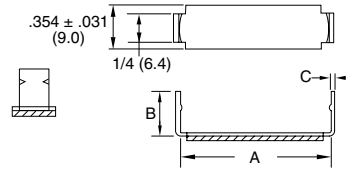


| Item No. | Figure | Max Cable Width | | Mounting Method | A Ref. | | B Ref. | | D Ref. | | E | | Bulk Pack Qty. |
|------------|--------|-----------------|------|------------------|--------|-------|--------|------|--------|------|-------|------|----------------|
| | | In | mm | | In | mm | In | mm | In | mm | In | mm | |
| RDAFCC-25 | 1 | 1.000 | 25.4 | #6 or M3.5 Screw | 2.984 | 75.8 | 0.984 | 25.0 | 1.169 | 29.7 | — | — | 100 |
| RDAFCC-25A | 1 | 1.000 | 25.4 | Adhesive | 2.984 | 75.8 | 0.984 | 25.0 | 1.169 | 29.7 | — | — | 100 |
| RDAFCC-50 | 2 | 2.000 | 50.8 | #6 or M3.5 Screw | 5.059 | 128.5 | 0.954 | 25.0 | 2.224 | 56.5 | 1.496 | 38.0 | 100 |
| RDAFCC-50A | 2 | 2.000 | 50.8 | Adhesive | 5.059 | 128.5 | 0.984 | 25.0 | 2.224 | 56.5 | 1.496 | 38.0 | 100 |
| RDAFCC-82 | 2 | 3.000 | 76.2 | #6 or M3.5 Screw | 7.062 | 179.4 | 1.000 | 25.4 | 3.259 | 82.8 | 1.496 | 38.0 | 100 |
| RDAFCC-82A | 2 | 3.000 | 76.2 | Adhesive | 7.062 | 179.4 | 1.000 | 25.4 | 3.259 | 82.8 | 1.496 | 38.0 | 100 |

FLAT CABLE CLAMPS



AFCC Aluminum Flat Cable Clamp on Adhesive Base



Specifications:

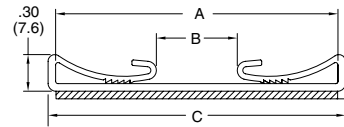
- Material: Aluminum
- Color: Bright Finish

Features:

- Aluminum arms secure flat ribbon cable
- Lightweight and durable
- Low profile for limited space applications

| Item No. | Cable Width A | | B Ref. | | C | | Depth | | Bulk Pack Qty. |
|----------|---------------|------|--------|------|-------|-------|-------|-----|----------------|
| | In | mm | In | mm | In | mm | In | mm | |
| AFCC-08 | 0.500 | 12.7 | 0.250 | 6.4 | 0.020 | 0.500 | 0.350 | 9.0 | 250 |
| AFCC-12 | 0.750 | 19.1 | 0.250 | 6.4 | 0.020 | 0.500 | 0.350 | 9.0 | 250 |
| AFCC-16 | 1.000 | 25.4 | 0.312 | 7.9 | 0.020 | 0.500 | 0.350 | 9.0 | 250 |
| AFCC-20 | 1.250 | 31.8 | 0.375 | 9.5 | 0.020 | 0.500 | 0.350 | 9.0 | 250 |
| AFCC-21 | 1.312 | 33.3 | 0.385 | 9.8 | 0.020 | 0.500 | 0.350 | 9.0 | 250 |
| AFCC-24 | 1.500 | 38.1 | 0.437 | 11.1 | 0.020 | 0.500 | 0.350 | 9.0 | 250 |
| AFCC-28 | 1.750 | 44.5 | 0.500 | 12.7 | 0.030 | 0.800 | 0.350 | 9.0 | 250 |
| AFCC-32 | 2.000 | 50.8 | 0.562 | 14.3 | 0.030 | 0.800 | 0.350 | 9.0 | 250 |

DFCC Dual Flat Cable Clamp on Adhesive Base



Specifications:

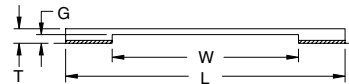
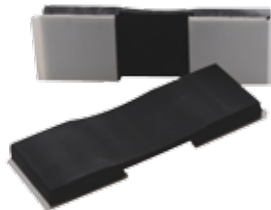
- Material: UL94 V-0 PVC
- Color: Black

Features:

- Flat ribbon cable is secured by serrated grips on both sides
- Low profile for limited space applications

| Item No. | A | | B Ref. | | C | | Depth | | # of Conductors | Bulk Pack Qty. |
|-----------|-------|------|--------|------|-------|------|-------|------|-----------------|----------------|
| | In | mm | In | mm | In | mm | In | mm | | |
| DFCC-2-RT | 2.312 | 58.7 | 0.656 | 16.8 | 2.437 | 61.9 | 0.750 | 19.1 | 34-37-40 | 100 |
| DFCC-3-RT | 3.250 | 82.6 | 1.609 | 40.6 | 3.375 | 85.7 | 0.750 | 19.1 | 50-60-64 | 100 |

FCC Flat Cable Clamp on Adhesive Base



Specifications:

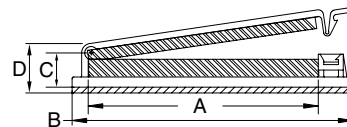
- Material: UL94 V-0 PVC
- Color: Black

Features:

- Clamp is secured with adhesive over flat ribbon cable
- Low profile for limited space applications

| Item No. | L | | W | | T | | G | | Depth | | Bulk Pack Qty. |
|-------------|-------|------|-------|------|-------|-----|-------|-----|-------|------|----------------|
| | In | mm | In | mm | In | mm | In | mm | In | mm | |
| FCC-4-3-RT | 1.500 | 38.1 | 0.500 | 12.7 | 0.156 | 4.0 | 0.093 | 2.4 | 0.500 | 12.7 | 100 |
| FCC-8-3-RT | 2.000 | 50.8 | 1.000 | 25.4 | 0.156 | 4.0 | 0.093 | 2.4 | 0.500 | 12.7 | 100 |
| FCC-16-3-RT | 3.000 | 76.2 | 2.000 | 50.6 | 0.156 | 4.0 | 0.093 | 2.4 | 0.500 | 12.7 | 100 |

FCWSF Cable Clamp with Silicone Foam Center



Specifications:

- Material: UL94 V-0 Nylon 6/6 and Silicone Foam
- Color: Natural

Features:

- UL94 V-0 silicone foam securely holds and protects fiber and cable
- Adhesive base for fast installation

| Item No. | A | | B | | C Ref. | | D Ref. | | Depth | | Cushion Thickness | | | | Pack Qty. | Bulk Pack Qty. |
|-------------|-------|------|-------|------|--------|-----|--------|------|-------|------|-------------------|-----|-----------|-----|-----------|----------------|
| | In | mm | In | mm | In | mm | In | mm | In | mm | Latch Side | | Base Side | | | |
| | | | | | | | | | | | In | mm | In | mm | | |
| FCWSF-29-19 | 1.240 | 31.5 | 1.780 | 45.1 | 0.300 | 7.7 | 0.440 | 11.1 | 0.750 | 19.1 | 0.130 | 3.3 | 0.130 | 3.3 | 1 | 100 |
| FCWSF-30-19 | 1.240 | 31.5 | 1.790 | 45.5 | 0.350 | 9.0 | 0.520 | 13.1 | 0.750 | 19.1 | 0.130 | 3.3 | 0.190 | 4.8 | 1 | 100 |
| FCWSF-40-19 | 1.550 | 39.3 | 2.090 | 53.0 | 0.370 | 9.3 | 0.530 | 13.4 | 0.750 | 19.1 | 0.130 | 3.3 | 0.190 | 4.8 | 1 | 100 |
| FCWSF-50-19 | 2.490 | 63.2 | 3.040 | 77.2 | 0.360 | 9.1 | 0.520 | 13.2 | 0.750 | 19.1 | 0.130 | 3.3 | 0.190 | 4.8 | 1 | 100 |



CABLE CLAMPS & CLIPS

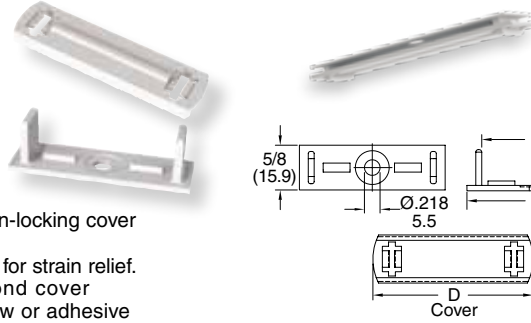
FCRC Flat Cable Routing Clamp

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Two part design: Cable clamp base and tension-locking cover (sold separately)
- More than one cover can be mounted on base; for strain relief. Double back cable and secure with a second cover
- Base is secured either with a #10 or #12 screw or adhesive



| Base Item No. | | A Ref. | | B Ref. | | C | | Use Cover Item No. | D | | Bulk Pack Qty. |
|------------------|----------------|--------|------|--------|------|-------|------|--------------------|-------|------|----------------|
| Without Adhesive | With Adhesive | In | mm | In | mm | In | mm | | In | mm | |
| FCRC-13B-4 | FCRC-13B-4A-RT | 2.040 | 51.7 | 1.620 | 41.2 | 0.500 | 12.7 | FCRC-13C | 2.240 | 56.8 | 100 |
| FCRC-19B-4 | FCRC-19B-4A-RT | 2.720 | 69.1 | 2.310 | 58.7 | 0.500 | 12.7 | FCRC-19C | 2.920 | 74.2 | 100 |
| FCRC-21B-4 | FCRC-21B-4A-RT | 2.980 | 75.7 | 2.550 | 64.8 | 0.500 | 12.7 | FCRC-21C | 3.170 | 80.5 | 100 |
| FCRC-26B-4 | FCRC-26B-4A-RT | 3.660 | 93.0 | 3.240 | 82.3 | 0.500 | 12.7 | FCRC-26C | 3.860 | 98.0 | 100 |
| FCRC-13B-6 | FCRC-13B-6A-RT | 2.040 | 51.7 | 1.620 | 41.2 | 0.750 | 19.1 | FCRC-13C | 2.240 | 56.8 | 100 |
| FCRC-19B-6 | FCRC-19B-6A-RT | 2.720 | 69.1 | 2.310 | 58.7 | 0.750 | 19.1 | FCRC-19C | 2.920 | 74.2 | 100 |
| FCRC-21B-6 | FCRC-21B-6A-RT | 2.980 | 75.7 | 2.550 | 64.8 | 0.750 | 19.1 | FCRC-21C | 3.170 | 80.5 | 100 |
| FCRC-26B-6 | FCRC-26B-6A-RT | 3.660 | 93.0 | 3.240 | 82.3 | 0.750 | 19.1 | FCRC-26C | 3.860 | 98.0 | 100 |

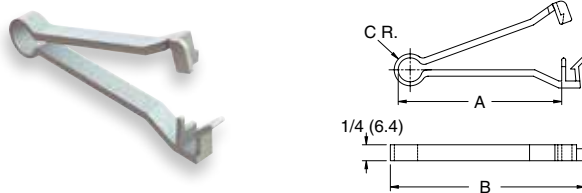
FCLC / FCLCS Flat Cable Loop Clip

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Allows for quick positive clamping of flat cable without the need for securing the clip to a board



| Item No. | A Max Cable Width | | B Ref. | | C Ref. | | Bulk Pack Qty. |
|----------|-------------------|------|--------|------|--------|-----|----------------|
| | In | mm | In | mm | In | mm | |
| FCLCS | 1.500 | 38.1 | 2.000 | 50.8 | 0.230 | 5.8 | 500 |
| FCLC | 2.500 | 63.5 | 3.000 | 76.2 | 0.250 | 6.4 | 500 |

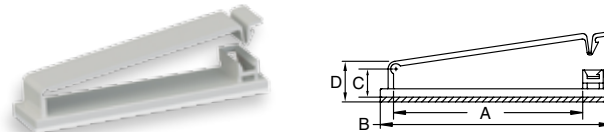
FCW Cable Clamp on Adhesive Base

Specifications:

- Material: Nylon 6/6
- Color: Natural

Features:

- Allows for quick positive clamping of flat cable up to 50 conductors wide
- Adhesive base for quick installation
- Latch allows cables to be added and removed



| Item No. | | Max # of Conductors | Depth | | A | | B | | C Ref. | | D Ref. | | Bulk Pack Qty. |
|------------|------------|---------------------|-------|------|-------|------|-------|------|--------|------|--------|------|----------------|
| UL94 V-2 | UL94 V-0 | | In | mm | In | mm | In | mm | In | mm | In | mm | |
| FCW-29-01 | FCW-29-19 | 30 | 0.740 | 18.9 | 1.240 | 31.5 | 1.780 | 45.1 | 0.300 | 7.7 | 0.440 | 11.1 | 100 |
| FCW-30-01 | FCW-30-19 | 30 | 0.750 | 19.1 | 1.240 | 31.5 | 1.790 | 45.5 | 0.350 | 9.0 | 0.520 | 13.1 | 100 |
| FCW-40-01 | FCW-40-19 | 40 | 0.750 | 19.1 | 1.550 | 39.3 | 2.090 | 53.0 | 0.370 | 9.3 | 0.530 | 13.4 | 100 |
| FCW-50-01 | FCW-50-19 | 50 | 0.750 | 19.1 | 2.490 | 63.2 | 3.040 | 77.2 | 0.360 | 9.1 | 0.520 | 13.2 | 100 |
| FCW-50H-01 | FCW-50H-19 | 50 | 0.740 | 18.9 | 2.540 | 64.6 | 3.080 | 78.2 | 0.590 | 15.1 | 0.750 | 19.0 | 100 |

FCCA / FCCB Arrowhead Mounted Cable Clamp

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Convenient releasable latch allows easy addition and removal of cables
- Easily mounted into pre-drilled holes

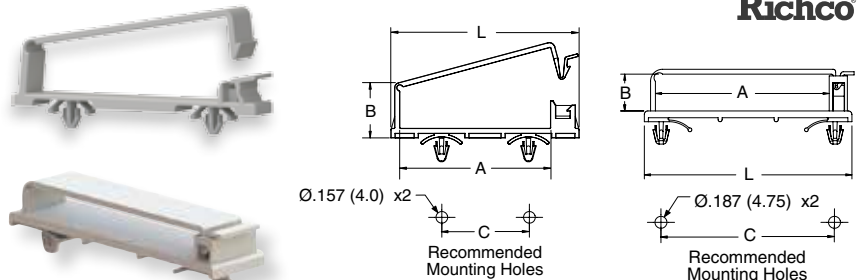


Figure 1

Figure 2

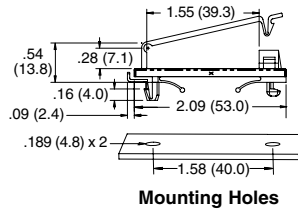
| Item No. | Figure | L | | A | | B | | C | Panel Thickness | | Depth | | Bulk Pack Qty. | |
|-------------|--------|-------|------|-------|------|-------|------|-------|-----------------|---------------|-----------|-------|----------------|-----|
| | | In | mm | In | mm | In | mm | | In | mm | In | mm | | |
| FCCA-30A-01 | 1 | 2.560 | 65.0 | 2.100 | 52.0 | 0.750 | 19.1 | 1.180 | 30.0 | 0.030 - 0.079 | 0.8 - 2.0 | 0.390 | 10.0 | 100 |
| FCCA-40A-01 | 1 | 2.640 | 67.0 | 5.100 | 53.4 | 0.640 | 16.4 | 1.580 | 40.0 | 0.030 - 0.079 | 0.8 - 2.0 | 0.390 | 10.0 | 100 |
| FCCB-1 | 2 | 3.030 | 77.0 | 2.540 | 64.5 | 0.280 | 7.2 | 2.540 | 64.5 | 0.031 - 0.078 | 0.8 - 2.0 | 0.790 | 20.0 | 100 |
| FCCB-2 | 2 | 3.030 | 77.0 | 2.540 | 64.5 | 0.540 | 13.7 | 2.540 | 64.5 | 0.031 - 0.078 | 0.8 - 2.0 | 0.790 | 20.0 | 100 |



FCSE
Slide Entry Cable Clamp

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural



Features:

- Removable from the top side of the board
- Fits in standard .189 (4.8) holes

| Item No. | Depth | | Panel Thickness | | Bulk Pack Qty. |
|----------|-------|------|-----------------|-----|----------------|
| | In | mm | In | mm | |
| FCSE-1 | 0.750 | 19.0 | 0.073 | 1.4 | 100 |

HFCC
Hinged Cable Clamp

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

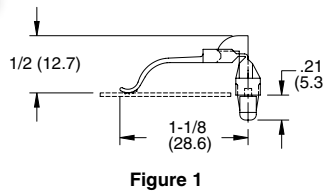


Figure 1

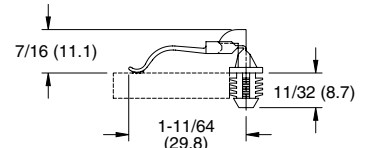


Figure 2



Features:

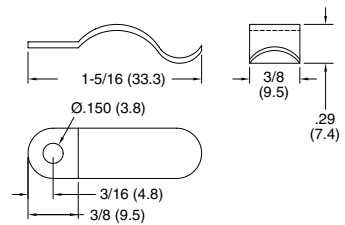
- Easy loading of flat cables
- Hinged design allows cables to be oriented prior to closure
- Once arm is hinged it locks in place
- Arrowhead design for thinner panels
- Fir-tree mount is primarily for particle board

| Item No. | Mounting Holes | | Panel Thickness | | Figure | Bulk Pack Qty. |
|--------------|----------------|-----|-----------------|-----------|--------|----------------|
| | In | mm | In | mm | | |
| HFCC-A-8-01 | 0.187 | 4.8 | .047 - .078 | 1.2 - 2.0 | 1 | 1000 |
| HFCC-BH-8-01 | 0.312 | 7.9 | .250 min. | 6.4 min. | 2 | 1000 |

TC
Spring Clip

Specifications:

- Material: See Chart
- Color: See Chart



Features:

- Holds down round cable, ribbon cable, and tubing
- Mounts with a #6 screw or rivet
- Flexible enough that the cable can be removed without removing the clip
- All contact edges are rounded for product protection

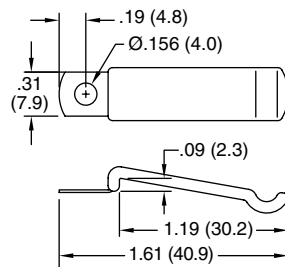
| Part Number | Holding Ø Max. | | Mounting Method | Material | Color | Bulk Pack Qty. |
|--------------|----------------|-----|-----------------|--------------------|---------|----------------|
| | In | mm | | | | |
| TC-30-1 | 0.370 | 9.4 | #6 (M3/M3.5) | UL94 HB Acetal | Natural | 1000 |
| TC-30-1BK | 0.370 | 9.4 | #6 (M3/M3.5) | UL94 HB Acetal | Black | 1000 |
| TC-30-1-01 | 0.370 | 9.4 | #6 (M3/M3.5) | UL94 V-2 Nylon 6/6 | Natural | 1000 |
| TC-30-1-01BK | 0.370 | 9.4 | #6 (M3/M3.5) | UL94 V-2 Nylon 6/6 | Black | 1000 |



STCV
Vinyl Coated Steel Spring Clip

Specifications:

- Material: Stainless Steel SAE30301
- Coating: Plastisol Vinyl
- Color: Black



Features:

- Vinyl coating protects and insulates product
- Holds down round cable, ribbon cable and tubing
- Mounts with a #6 (m3) screw or rivet
- Flexible enough that the cable can be removed without removing the clip

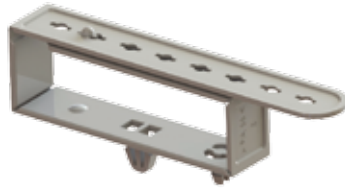
| Item No. | Mounting Screw | Pack Qty. | Bulk Pack Qty. |
|----------|----------------|-----------|----------------|
| STCV-1 | #6 (M3) | 1 | 1000 |





CABLE STRAPS

CMS Cable Management Strap

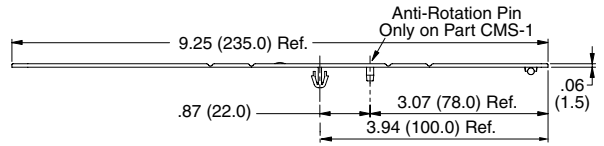


Specifications:

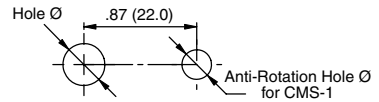
- Material: UL94 V-0 Nylon 6/6
- Color: See table

Features:

- Part is provided flat. It is folded up to bundle cables
- Strap is adjustable
- Optional anti-rotation pin prevents the strap from turning in the hole

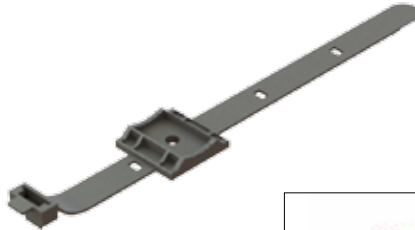


Recommended Mounting Holes For CMS-1



| Item No. | | Mounting Hole Ø | | Anti-Rotation Hole Ø | | Panel Thickness | | Max Bundle (W x H) | | Depth | | Bulk Pack Qty. |
|----------|---------|-----------------|-----------|----------------------|-----|-----------------|----|--------------------|---------|-------|----|----------------|
| Natural | Black | In | mm | In | mm | In | mm | In | mm | In | mm | |
| CMS-1 | CMS-1BK | 0.236 - 0.256 | 6.0 - 6.5 | 0.138 | 3.5 | 0.118 | 3 | 2.76 x 1.12 | 70 x 30 | 0.550 | 14 | 250 |
| CMS-2 | CMS-2BK | 0.236 - 0.256 | 6.0 - 6.5 | — | — | 0.118 | 3 | 2.76 x 1.12 | 70 x 30 | 0.550 | 14 | 250 |

UMS Universal Mounting Strap

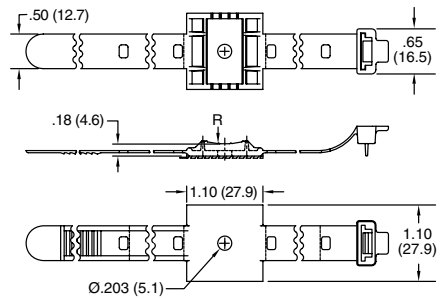


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Black

Features:

- Mounts with adhesive or a #6 or M4 screw
- Buckle design allows gripping down on cable bundles
- Adjustable to handle multiple bundle sizes



| Item No. | | Min Loop Tensile Strength | | Max Bundle Ø | | R Radius | | Bulk Pack Qty. |
|----------------|-------------|---------------------------|----|--------------|------|----------|------|----------------|
| Adhesive Mount | Screw Mount | Lbs | Kg | In | mm | In | mm | |
| UMS-16-45A-RT | UMS-16-45 | 50 | 23 | 1.000 | 25.4 | 0.500 | 12.7 | 100 |
| UMS-24-45A-RT | UMS-24-45 | 50 | 23 | 1.500 | 38.1 | 0.750 | 19.1 | 100 |
| UMS-32-45A-RT | UMS-32-45 | 50 | 23 | 2.000 | 50.8 | 1.000 | 25.4 | 100 |

UCG Universal Cable Grip

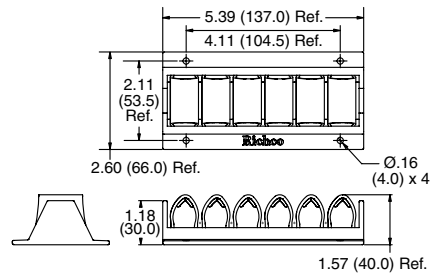


Specifications:

- Base Material: HDPE
- Insert Material: TPE
- Color: Black
- Mount to panel using #6 or M3.5 screws

Features:

- Pressure grips accommodate up to 7 cable bundles
- Cable grips are easily removed from the frame to accommodate larger cable bundles
- Cables are pushed into the product by hand and are easily removed



| Item No. | Max Cable Bundle Ø Ref (7 Positions) | | Max Cable Bundle Ø Ref (5 Center Positions Only) | | Pack Qty. | Bulk Pack Qty. |
|----------|--------------------------------------|-----|--|------|-----------|----------------|
| | In | mm | In | mm | | |
| UCG-6BK | 0.08 | 2.0 | 0.630 | 16.0 | 1 | 125 |



CABLE TIES



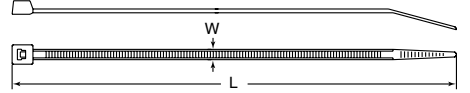
CT / WITA Nylon Locking Cable Tie

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: See Table
- Service Temperature: -40°F to 185°F (-40°C to 85°C)

Features:

- Complies with MS-3367 & MIL-S-23190E
- UL 181B-C for UI non-metallic air ducts and connectors on CT080A, CT080B, CT082A & CT082B: recommended for use with R-6 & R-8 flex ducts



| Item No. | Natural | Black | Approval | L Ref. | | W Ref. | | Max Bundle Ø | | Tensile Strength | | Classification | Bulk Pack Qty. |
|-------------|---------|-------|----------|--------|--------|--------|-----|--------------|-------|------------------|-----|----------------|----------------|
| | | | | In | mm | In | mm | In | mm | Lbs | N | | |
| CT001A | CT001B | | | 3.000 | 75.0 | 0.095 | 2.4 | 0.710 | 18.0 | 18 | 80 | Miniature | 100 |
| CT002A | CT002B | | | 3.750 | 96.0 | 0.098 | 2.4 | 0.910 | 23.0 | 18 | 80 | Miniature | 100 |
| WITA-18SF-M | - | | | 3.850 | 97.8 | 0.100 | 2.5 | 0.870 | 22.0 | 18 | 80 | Miniature | 1000 |
| CT003A | CT003B | | | 4.000 | 100.0 | 0.098 | 2.4 | 0.980 | 25.0 | 18 | 80 | Miniature | 100 |
| WITA-18R-M | - | | | 4.720 | 120.0 | 0.100 | 2.5 | 1.060 | 26.9 | 18 | 80 | Miniature | 1000 |
| CT004A | CT004B | | | 4.750 | 120.0 | 0.098 | 2.5 | 1.180 | 30.0 | 18 | 80 | Miniature | 100 |
| CT005A | CT005B | | | 5.500 | 142.0 | 0.098 | 2.5 | 1.380 | 35.0 | 18 | 80 | Miniature | 100 |
| WITA-18L-M | - | | | 5.900 | 150.0 | 0.100 | 2.5 | 1.460 | 37.1 | 18 | 80 | Miniature | 1000 |
| CT006A | CT006B | | | 6.500 | 165.0 | 0.098 | 2.5 | 1.730 | 44.0 | 18 | 80 | Miniature | 100 |
| WITA-18V-M | - | | | 7.870 | 200.0 | 0.100 | 2.5 | 2.130 | 54.1 | 18 | 80 | Miniature | 1000 |
| CT007A | CT007B | | | 8.000 | 203.0 | 0.098 | 2.5 | 2.170 | 55.0 | 18 | 80 | Miniature | 100 |
| WITA-18X-M | - | | | 15.750 | 400.0 | 0.100 | 2.5 | 4.560 | 116.0 | 18 | 80 | Miniature | 1000 |
| CT008A | CT008B | | | 4.750 | 120.0 | 0.126 | 3.2 | 1.180 | 40.0 | 40 | 178 | Intermediate | 100 |
| CT009A | CT009B | | | 5.500 | 142.0 | 0.126 | 3.2 | 1.380 | 40.0 | 40 | 178 | Intermediate | 100 |
| WITA-40R-C | - | | | 5.910 | 150.0 | 0.140 | 3.6 | 1.480 | 37.6 | 40 | 178 | Intermediate | 100 |
| WITA-40R-M | - | | | 5.910 | 150.0 | 0.140 | 3.6 | 1.480 | 37.6 | 40 | 178 | Intermediate | 1000 |
| CT010A | CT010B | | | 6.000 | 150.0 | 0.142 | 3.6 | 1.540 | 39.0 | 40 | 178 | Intermediate | 100 |
| CT020A | CT020B | | | 7.000 | 180.0 | 0.141 | 3.6 | 1.930 | 49.0 | 40 | 178 | Intermediate | 100 |
| WITA-40L-M | - | | | 7.870 | 200.0 | 0.140 | 3.6 | 2.050 | 52.0 | 40 | 178 | Intermediate | 1000 |
| CT011A | CT011B | | | 8.000 | 203.0 | 0.126 | 3.2 | 2.170 | 40.0 | 40 | 178 | Intermediate | 100 |
| CT012A | CT012C | | | 8.000 | 203.0 | 0.142 | 3.6 | 2.170 | 55.0 | 40 | 178 | Intermediate | 100 |
| WITA-40XL-M | - | | | 8.070 | 205.0 | 0.140 | 3.6 | 2.100 | 53.3 | 40 | 178 | Intermediate | 1000 |
| CT013A | CT013B | | | 10.000 | 250.0 | 0.142 | 3.6 | 2.910 | 74.0 | 40 | 178 | Intermediate | 100 |
| CT014A | CT014B | | | 10.500 | 265.0 | 0.142 | 3.6 | 3.070 | 78.0 | 40 | 178 | Intermediate | 100 |
| CT015A | CT015B | | | 11.500 | 292.0 | 0.142 | 3.6 | 3.350 | 85.0 | 40 | 178 | Intermediate | 100 |
| WITA-40VL-M | - | | | 11.810 | 300.0 | 0.140 | 3.6 | 3.270 | 83.0 | 40 | 178 | Intermediate | 1000 |
| CT016A | CT016B | | | 13.000 | 330.0 | 0.142 | 3.6 | 3.780 | 96.0 | 40 | 178 | Intermediate | 100 |
| CT017A | CT017B | | | 14.500 | 368.0 | 0.142 | 3.6 | 4.020 | 102.0 | 40 | 178 | Intermediate | 100 |
| CT018A | CT018B | | | 4.750 | 120.0 | 0.189 | 4.8 | 1.180 | 30.0 | 50 | 222 | Standard | 100 |
| WITA-50S-M | - | | | 6.300 | 160.0 | 0.180 | 4.6 | 1.520 | 38.7 | 50 | 222 | Standard | 1000 |
| CT019A | CT019B | | | 6.500 | 160.0 | 0.189 | 4.8 | 1.650 | 42.0 | 50 | 222 | Standard | 100 |
| CT021A | CT021B | | | 7.500 | 190.0 | 0.189 | 4.8 | 2.050 | 52.0 | 50 | 222 | Standard | 100 |
| WITA-50R-M | - | | | 7.900 | 200.7 | 0.180 | 4.6 | 1.950 | 49.5 | 50 | 222 | Standard | 1000 |
| CT022A | CT022B | | | 8.000 | 203.0 | 0.181 | 4.6 | 2.170 | 55.0 | 50 | 222 | Standard | 100 |
| CT023A | CT023B | | | 10.000 | 250.0 | 0.189 | 4.8 | 2.910 | 74.0 | 50 | 222 | Standard | 100 |
| CT024A | CT024B | | | 11.000 | 280.0 | 0.189 | 4.8 | 3.190 | 81.0 | 50 | 222 | Standard | 100 |
| WITA-50RL-M | - | | | 11.020 | 280.0 | 0.190 | 4.8 | 3.030 | 77.0 | 50 | 222 | Standard | 1000 |
| CT025A | CT025B | | | 11.875 | 300.0 | 0.189 | 4.8 | 3.350 | 85.0 | 50 | 222 | Standard | 100 |
| CT026A | CT026B | | | 12.250 | 310.0 | 0.189 | 4.8 | 3.500 | 89.0 | 50 | 222 | Standard | 100 |
| CT027A | CT027B | | | 14.500 | 368.0 | 0.189 | 4.8 | 4.020 | 102.0 | 50 | 222 | Standard | 100 |
| CT028A | CT028B | | | 15.250 | 385.0 | 0.189 | 4.8 | 4.570 | 116.0 | 50 | 222 | Standard | 100 |
| WITA-50L-M | - | | | 15.750 | 400.0 | 0.180 | 4.6 | 4.450 | 113.0 | 50 | 222 | Standard | 1000 |
| CT029A | CT029B | | | 17.000 | 432.0 | 0.189 | 4.8 | 4.920 | 125.0 | 50 | 222 | Standard | 100 |
| CT030A | CT030B | | | 17.750 | 450.0 | 0.189 | 4.8 | 5.120 | 130.0 | 50 | 222 | Standard | 100 |
| CT031A | CT031B | | | 19.687 | 500.0 | 0.189 | 4.8 | 5.910 | 150.0 | 50 | 222 | Standard | 100 |
| CT033A | CT033B | | | 21.687 | 550.0 | 0.189 | 4.8 | 6.540 | 166.0 | 50 | 222 | Standard | 100 |
| WITA-50XL-C | - | | | 25.000 | 635.0 | 0.190 | 4.8 | 7.480 | 190.0 | 50 | 222 | Standard | 100 |
| CT063A | CT063B | | | 36.000 | 914.0 | 0.189 | 4.8 | 10.630 | 270.0 | 50 | 222 | Standard | 100 |
| CT064A | CT064B | | | 4.750 | 120.0 | 0.299 | 7.6 | 1.180 | 30.0 | 120 | 534 | Heavy Duty | 100 |
| CT065A | CT065B | | | 6.000 | 150.0 | 0.299 | 7.6 | 1.540 | 39.0 | 120 | 534 | Heavy Duty | 100 |
| CT066A | CT066B | | | 8.000 | 203.0 | 0.299 | 7.6 | 2.170 | 55.0 | 120 | 534 | Heavy Duty | 100 |
| WITA-120S-D | - | | | 8.600 | 218.0 | 0.300 | 7.6 | 2.010 | 51.0 | 120 | 534 | Heavy Duty | 500 |
| CT067A | CT067B | | | 9.437 | 240.0 | 0.299 | 7.6 | 2.600 | 66.0 | 120 | 534 | Heavy Duty | 100 |
| CT068A | CT068B | | | 11.000 | 280.0 | 0.299 | 7.6 | 3.070 | 78.0 | 120 | 534 | Heavy Duty | 100 |
| CT069A | CT069B | | | 11.750 | 300.0 | 0.299 | 7.6 | 3.460 | 88.0 | 120 | 534 | Heavy Duty | 100 |
| CT070A | CT070B | | | 13.500 | 340.0 | 0.299 | 7.6 | 3.900 | 99.0 | 120 | 534 | Heavy Duty | 100 |
| CT071A | CT071B | | | 15.000 | 380.0 | 0.252 | 6.4 | 4.330 | 110.0 | 100 | 445 | Heavy Duty | 100 |
| CT072A | CT072B | | | 15.000 | 380.0 | 0.299 | 7.6 | 4.330 | 110.0 | 120 | 534 | Heavy Duty | 100 |
| WITA-120R-D | - | | | 15.750 | 400.0 | 0.310 | 7.8 | 4.450 | 113.0 | 120 | 534 | Heavy Duty | 500 |
| CT073A | CT073B | | | 17.750 | 450.0 | 0.315 | 8.0 | 5.240 | 133.0 | 120 | 534 | Heavy Duty | 100 |
| WITA-120L-D | - | | | 21.650 | 550.0 | 0.310 | 7.8 | 6.380 | 162.0 | 120 | 534 | Heavy Duty | 500 |
| CT074A | CT074B | | | 21.687 | 550.0 | 0.315 | 8.0 | 6.540 | 166.0 | 175 | 778 | Heavy Duty | 100 |
| WITA-175R-L | - | | | 24.000 | 610.0 | 0.350 | 9.0 | 7.020 | 178.0 | 175 | 778 | Heavy Duty | 50 |
| CT075A | CT075B | | | 24.000 | 610.0 | 0.354 | 9.0 | 7.280 | 185.0 | 175 | 778 | Heavy Duty | 100 |
| CT076A | CT076B | | | 27.000 | 685.0 | 0.354 | 9.0 | 8.270 | 210.0 | 175 | 778 | Heavy Duty | 100 |
| CT077A | CT077B | | | 28.000 | 710.0 | 0.354 | 9.0 | 8.660 | 220.0 | 175 | 778 | Heavy Duty | 100 |
| CT078A | CT078B | | | 30.000 | 762.0 | 0.354 | 9.0 | 9.290 | 236.0 | 175 | 778 | Heavy Duty | 100 |
| CT079A | CT079B | | | 32.000 | 812.0 | 0.354 | 9.0 | 9.690 | 246.0 | 175 | 778 | Heavy Duty | 100 |
| CT080A | CT080B | | | 36.000 | 914.0 | 0.354 | 9.0 | 10.630 | 270.0 | 175 | 778 | Heavy Duty | 100 |
| WITA-175L-Q | - | | | 36.000 | 914.0 | 0.350 | 9.0 | 10.910 | 277.0 | 175 | 778 | Heavy Duty | 25 |
| CT081A | CT081B | | | 46.000 | 1168.0 | 0.354 | 9.0 | 14.170 | 360.0 | 175 | 778 | Heavy Duty | 100 |
| CT082A | CT082B | | | 48.000 | 1219.0 | 0.354 | 9.0 | 15.000 | 380.0 | 175 | 778 | Heavy Duty | 100 |
| CT084A | CT084B | | | 59.000 | 1500.0 | 0.354 | 9.0 | 18.270 | 464.0 | 175 | 778 | Heavy Duty | 100 |



CABLE TIES

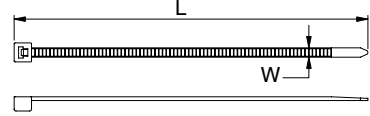
CTWR / WITA

Weather Resistant Locking Cable Tie



Specifications:

- Material: UL94 V-2 UV Stabilized Nylon 6/6
- Color: Black
- Service Temperature: -40°F to 185°F (-40°C to 85°C)



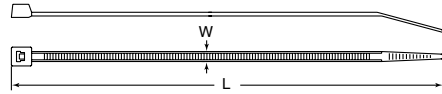
Features:

- Designed for outdoor applications

| Item No. | Approval | L Ref. | | W Ref. | | Max Bundle Ø | | Tensile Strength | | Classification | Bulk Pack Qty. |
|-----------------|----------|--------|-------|--------|-----|--------------|-------|------------------|-----|----------------|----------------|
| | | In | mm | In | mm | In | mm | Lbs | N | | |
| CTWR001A | RU | 3.000 | 75.0 | 0.095 | 2.4 | 0.710 | 18.0 | 18 | 80 | Miniature | 100 |
| CTWR002A | RU | 3.750 | 96.0 | 0.098 | 2.4 | 0.910 | 23.0 | 18 | 80 | Miniature | 100 |
| WITA-18SF-UVB-M | — | 3.850 | 97.8 | 0.100 | 2.5 | 0.870 | 22.0 | 18 | 80 | Miniature | 1000 |
| CTWR003A | RU | 4.000 | 100.0 | 0.098 | 2.4 | 0.980 | 25.0 | 18 | 80 | Miniature | 100 |
| WITA-18R-UVB-M | — | 4.720 | 120.0 | 0.100 | 2.5 | 1.060 | 26.9 | 18 | 80 | Miniature | 1000 |
| CTWR004A | RU | 4.750 | 120.0 | 0.098 | 2.5 | 1.180 | 30.0 | 18 | 80 | Miniature | 100 |
| CTWR005A | RU | 5.500 | 142.0 | 0.098 | 2.5 | 1.380 | 35.0 | 18 | 80 | Miniature | 100 |
| WITA-18L-UVB-M | — | 5.900 | 150.0 | 0.100 | 2.5 | 1.460 | 37.1 | 18 | 80 | Miniature | 1000 |
| CTWR006A | RU | 6.500 | 165.0 | 0.098 | 2.5 | 1.730 | 44.0 | 18 | 80 | Miniature | 100 |
| WITA-18V-UVB-M | — | 7.870 | 200.0 | 0.100 | 2.5 | 2.130 | 54.1 | 18 | 80 | Miniature | 1000 |
| CTWR007A | RU | 8.000 | 203.0 | 0.098 | 2.5 | 2.170 | 55.0 | 18 | 80 | Miniature | 100 |
| WITA-18X-UVB-M | — | 15.750 | 400.0 | 0.100 | 2.5 | 4.560 | 116.0 | 18 | 80 | Miniature | 1000 |
| CTWR008A | RU | 4.750 | 120.0 | 0.126 | 3.2 | 1.180 | 30.0 | 40 | 178 | Intermediate | 100 |
| CTWR009A | RU | 5.500 | 142.0 | 0.126 | 3.2 | 1.380 | 35.0 | 40 | 178 | Intermediate | 100 |
| WITA-40R-UVB-C | — | 5.910 | 150.0 | 0.140 | 3.6 | 1.480 | 37.6 | 40 | 178 | Intermediate | 100 |
| WITA-40L-UVB-M | — | 7.870 | 200.0 | 0.140 | 3.6 | 2.050 | 52.0 | 40 | 178 | Intermediate | 1000 |
| CTWR010A | RU | 8.000 | 203.0 | 0.126 | 3.2 | 2.170 | 55.0 | 40 | 178 | Intermediate | 100 |
| WITA-40XL-UVB-M | — | 8.070 | 205.0 | 0.140 | 3.6 | 2.100 | 53.3 | 40 | 178 | Intermediate | 1000 |
| CTWR011A | RU | 6.000 | 150.0 | 0.142 | 3.6 | 1.540 | 39.0 | 40 | 178 | Intermediate | 100 |
| CTWR012A | RU | 8.000 | 203.0 | 0.142 | 3.6 | 2.170 | 55.0 | 40 | 178 | Intermediate | 100 |
| CTWR013A | RU | 10.000 | 250.0 | 0.142 | 3.6 | 2.910 | 74.0 | 40 | 178 | Intermediate | 100 |
| CTWR014A | RU | 10.500 | 265.0 | 0.142 | 3.6 | 3.070 | 78.0 | 40 | 178 | Intermediate | 100 |
| CTWR015A | RU | 11.500 | 292.0 | 0.142 | 3.6 | 3.350 | 85.0 | 40 | 178 | Intermediate | 100 |
| WITA-40VL-UVB-M | — | 11.810 | 300.0 | 0.140 | 3.6 | 3.270 | 83.0 | 40 | 178 | Intermediate | 1000 |
| CTWR016A | RU | 13.000 | 330.0 | 0.142 | 3.6 | 3.780 | 96.0 | 40 | 178 | Intermediate | 100 |
| CTWR017A | RU | 14.500 | 368.0 | 0.142 | 3.6 | 4.020 | 102.0 | 40 | 178 | Intermediate | 100 |
| CTWR018A | RU | 7.000 | 180.0 | 0.142 | 3.6 | 1.930 | 49.0 | 40 | 178 | Intermediate | 100 |
| WITA-50S-UVB-M | — | 6.300 | 160.0 | 0.180 | 4.6 | 1.520 | 38.7 | 50 | 222 | Standard | 1000 |
| WITA-50R-UVB-M | — | 7.900 | 200.7 | 0.180 | 4.6 | 1.950 | 49.5 | 50 | 222 | Standard | 1000 |
| CTWR019A | RU | 8.000 | 203.0 | 0.181 | 4.6 | 2.170 | 55.0 | 50 | 222 | Standard | 100 |
| CTWR020A | RU | 4.750 | 120.0 | 0.189 | 4.8 | 1.180 | 30.0 | 50 | 222 | Standard | 100 |
| CTWR021A | RU | 6.500 | 160.0 | 0.189 | 4.8 | 1.650 | 42.0 | 50 | 222 | Standard | 100 |
| CTWR022A | RU | 7.500 | 190.0 | 0.189 | 4.8 | 2.050 | 52.0 | 50 | 222 | Standard | 100 |
| CTWR023A | RU | 10.000 | 250.0 | 0.189 | 4.8 | 2.910 | 74.0 | 50 | 222 | Standard | 100 |
| CTWR024A | RU | 11.000 | 280.0 | 0.189 | 4.8 | 3.190 | 81.0 | 50 | 222 | Standard | 100 |
| WITA-50RL-UVB-M | — | 11.020 | 280.0 | 0.190 | 4.8 | 3.030 | 77.0 | 50 | 222 | Standard | 1000 |
| CTWR025A | — | 11.875 | 300.0 | 0.189 | 4.8 | 3.350 | 85.0 | 50 | 222 | Standard | 100 |
| CTWR026A | RU | 12.250 | 310.0 | 0.189 | 4.8 | 3.500 | 89.0 | 50 | 222 | Standard | 100 |
| CTWR027A | RU | 14.500 | 368.0 | 0.189 | 4.8 | 4.020 | 102.0 | 50 | 222 | Standard | 100 |
| CTWR028A | RU | 15.187 | 385.0 | 0.189 | 4.8 | 4.570 | 116.0 | 50 | 222 | Standard | 100 |
| WITA-50L-UVB-M | — | 15.750 | 391.2 | 0.180 | 4.6 | 4.520 | 114.8 | 50 | 222 | Standard | 1000 |
| CTWR029A | RU | 17.000 | 432.0 | 0.189 | 4.8 | 4.920 | 125.0 | 50 | 222 | Standard | 100 |
| CTWR030A | RU | 17.750 | 450.0 | 0.189 | 4.8 | 5.120 | 130.0 | 50 | 222 | Standard | 100 |
| CTWR031A | RU | 19.687 | 500.0 | 0.189 | 4.8 | 5.910 | 150.0 | 50 | 222 | Standard | 100 |
| CTWR033A | — | 21.687 | 550.0 | 0.189 | 4.8 | 6.540 | 166.0 | 50 | 222 | Standard | 100 |
| WITA-50XL-UVB-C | — | 25.000 | 635.0 | 0.190 | 4.8 | 7.480 | 190.0 | 50 | 222 | Standard | 100 |
| CTWR063A | — | 36.000 | 914.0 | 0.189 | 4.8 | 10.630 | 270.0 | 50 | 222 | Standard | 100 |
| CTWR064A | — | 4.750 | 120.0 | 0.299 | 7.6 | 1.180 | 30.0 | 120 | 534 | Heavy Duty | 100 |
| CTWR065A | — | 6.000 | 150.0 | 0.299 | 7.6 | 1.540 | 39.0 | 120 | 534 | Heavy Duty | 100 |
| CTWR066A | RU | 8.000 | 203.0 | 0.299 | 7.6 | 2.170 | 55.0 | 120 | 534 | Heavy Duty | 100 |
| WITA-120S-UVB-D | — | 8.600 | 218.0 | 0.300 | 7.6 | 2.010 | 51.0 | 120 | 534 | Heavy Duty | 500 |
| CTWR067A | RU | 9.437 | 240.0 | 0.299 | 7.6 | 2.600 | 66.0 | 120 | 534 | Heavy Duty | 100 |
| CTWR068A | RU | 11.000 | 280.0 | 0.299 | 7.6 | 3.070 | 78.0 | 120 | 534 | Heavy Duty | 100 |
| CTWR069A | RU | 11.875 | 300.0 | 0.299 | 7.6 | 3.500 | 88.0 | 120 | 534 | Heavy Duty | 100 |
| CTWR070A | RU | 13.500 | 340.0 | 0.299 | 7.6 | 3.900 | 99.0 | 120 | 534 | Heavy Duty | 100 |
| CTWR071A | — | 15.000 | 380.0 | 0.252 | 6.4 | 4.330 | 110.0 | 100 | 445 | Heavy Duty | 100 |
| CTWR072A | RU | 15.000 | 380.0 | 0.299 | 7.6 | 4.330 | 110.0 | 120 | 534 | Heavy Duty | 100 |
| WITA-120R-UVB-D | — | 15.750 | 400.0 | 0.310 | 7.8 | 4.450 | 113.0 | 120 | 534 | Heavy Duty | 500 |
| WITA-120L-UVB-D | — | 21.650 | 550.0 | 0.310 | 7.8 | 6.380 | 162.0 | 120 | 534 | Heavy Duty | 500 |
| CTWR073A | RU | 17.750 | 450.0 | 0.315 | 8.0 | 5.250 | 133.0 | 175 | 778 | Heavy Duty | 100 |
| CTWR074A | RU | 21.875 | 550.0 | 0.315 | 8.0 | 6.500 | 166.0 | 175 | 778 | Heavy Duty | 100 |
| WITA-175R-UVB-L | — | 24.000 | 610.0 | 0.350 | 9.0 | 7.020 | 178.0 | 175 | 778 | Heavy Duty | 50 |
| CTWR075A | RU | 24.000 | 610.0 | 0.354 | 9.0 | 7.280 | 185.0 | 175 | 778 | Heavy Duty | 100 |
| CTWR076A | RU | 27.000 | 680.0 | 0.354 | 9.0 | 8.270 | 210.0 | 175 | 778 | Heavy Duty | 100 |
| CTWR077A | RU | 28.000 | 705.0 | 0.354 | 9.0 | 8.660 | 220.0 | 175 | 778 | Heavy Duty | 100 |
| CTWR078A | RU | 30.000 | 762.0 | 0.354 | 9.0 | 9.290 | 236.0 | 175 | 778 | Heavy Duty | 100 |
| CTWR079A | RU | 32.000 | 812.0 | 0.354 | 9.0 | 9.690 | 246.0 | 175 | 778 | Heavy Duty | 100 |
| CTWR080A | RU | 36.000 | 914.0 | 0.354 | 9.0 | 10.630 | 270.0 | 175 | 778 | Heavy Duty | 100 |
| WITA-175L-UVB-Q | — | 36.000 | 914.0 | 0.350 | 9.0 | 10.910 | 277.0 | 175 | 778 | Heavy Duty | 25 |
| CTWR081A | RU | 46.000 | 1168 | 0.354 | 9.0 | 14.170 | 360.0 | 175 | 778 | Heavy Duty | 100 |
| CTWR082A | RU | 48.000 | 1219 | 0.354 | 9.0 | 15.000 | 380.0 | 175 | 778 | Heavy Duty | 100 |
| CTWR084A | — | 59.000 | 1500 | 0.354 | 9.0 | 18.270 | 464.0 | 175 | 778 | Heavy Duty | 100 |



CTHD
Extra Heavy Duty Cable Tie



Specifications:

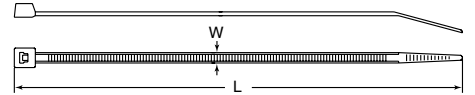
- Material: UL94 V-2 Nylon 6/6
- Color: See Table
- Service Temperature: -40°F to 185°F (-40°C to 85°C)

Features:

- High tensile strength for demanding applications

| Item No. | | L | | W | | Max Bundle Ø | | Tensile Strength | | Classification | Bulk Pack Qty. |
|----------|----------|----------|--------|-------|------|--------------|-------|------------------|------|------------------|----------------|
| Natural | Black | In | mm | In | mm | In | mm | Lbs | N | | |
| CTHD001A | CTHD001B | 9 | 230.0 | 0.500 | 12.7 | 2.480 | 63.0 | 250 | 1113 | Extra Heavy Duty | 100 |
| CTHD002A | CTHD002B | 11 | 280.0 | 0.500 | 12.7 | 3.150 | 80.0 | 250 | 1113 | Extra Heavy Duty | 100 |
| CTHD003A | CTHD003B | 15 | 380.0 | 0.500 | 12.7 | 4.330 | 110.0 | 250 | 1113 | Extra Heavy Duty | 100 |
| CTHD004A | CTHD004B | 18-7/8 | 480.0 | 0.500 | 12.7 | 5.510 | 140.0 | 250 | 1113 | Extra Heavy Duty | 100 |
| CTHD005A | CTHD005B | 21-11/16 | 550.0 | 0.500 | 12.7 | 6.540 | 166.0 | 250 | 1113 | Extra Heavy Duty | 100 |
| CTHD006A | CTHD006B | 22-7/8 | 580.0 | 0.500 | 12.7 | 6.890 | 175.0 | 250 | 1113 | Extra Heavy Duty | 100 |
| CTHD007A | CTHD007B | 28-3/4 | 730.0 | 0.500 | 12.7 | 8.860 | 225.0 | 250 | 1113 | Extra Heavy Duty | 100 |
| CTHD008A | CTHD008B | 34-11/16 | 880.0 | 0.500 | 12.7 | 10.510 | 267.0 | 250 | 1113 | Extra Heavy Duty | 100 |
| CTHD009A | CTHD009B | 40-1/2 | 1030.0 | 0.500 | 12.7 | 12.480 | 317.0 | 250 | 1113 | Extra Heavy Duty | 100 |

CT
Colored Locking Cable Tie

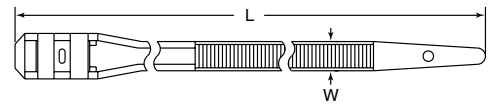


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: See Table

| Item No. | | | | | | L Ref. | | W Ref. | | Max Bundle Ø | | Tensile Strength | | Classification | Bulk Pack Qty. |
|----------|--------|--------|--------|--------|----------|--------|-----|--------|-----|--------------|-----|------------------|-----|----------------|----------------|
| Green | Red | Yellow | Blue | Silver | Approval | In | mm | In | mm | In | mm | Lbs | N | | |
| CT003G | CT003K | CT003Y | CT003L | CT003S | RA | 4 | 100 | 0.098 | 2.5 | 0.980 | 25 | 18 | 80 | Miniature | 100 |
| CT007G | CT007K | CT007Y | CT007L | CT007S | RA | 8 | 203 | 0.098 | 2.5 | 2.170 | 55 | 18 | 80 | Miniature | 100 |
| CT010G | CT010K | CT010Y | CT010L | CT010S | RA | 6 | 150 | 0.142 | 3.6 | 1.540 | 39 | 40 | 178 | Intermediate | 100 |
| CT013G | CT013K | CT013Y | CT013L | CT013S | RA | 10 | 250 | 0.142 | 3.6 | 2.910 | 74 | 40 | 178 | Intermediate | 100 |
| CT022G | CT022K | CT022Y | CT022L | CT022S | RA | 8 | 203 | 0.181 | 4.6 | 2.170 | 55 | 50 | 222 | Standard | 100 |
| CT025G | CT025K | CT025Y | CT025L | CT025S | RA | 11-7/8 | 300 | 0.189 | 4.8 | 3.350 | 85 | 50 | 222 | Standard | 100 |
| CT027G | CT027K | CT027Y | CT027L | CT027S | RA | 14-1/2 | 368 | 0.189 | 4.8 | 4.020 | 102 | 50 | 222 | Standard | 100 |
| CT072G | CT072K | CT072Y | CT072L | CT072S | RA | 15 | 380 | 0.299 | 7.6 | 4.330 | 110 | 120 | 534 | Heavy Duty | 100 |

CTDL
Double Locking Cable Tie



Specifications:

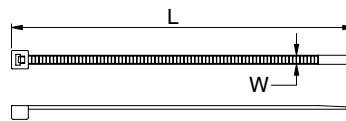
- Material: UL 94 V-2 Nylon 6/6
- Color: Black

Features:

- Bundle conforms to a more rounded shape
- Tail enters head parallel to itself, thus avoiding the teardrop effect of standard cable ties

| Item No. | L Ref. | | W Ref. | | Max Bundle Ø | | Tensile Strength | | Bulk Pack Qty. |
|----------|---------|-------|--------|-----|--------------|-------|------------------|-----|----------------|
| | In | mm | In | mm | In | mm | Lbs | N | |
| CTDL001A | 5-3/16 | 132.0 | 0.354 | 9.0 | 1.180 | 30.0 | 77 | 343 | 100 |
| CTDL002A | 7-1/16 | 180.0 | 0.354 | 9.0 | 1.770 | 45.0 | 77 | 343 | 100 |
| CTDL003A | 9-1/4 | 235.0 | 0.354 | 9.0 | 2.170 | 55.0 | 120 | 534 | 100 |
| CTDL004A | 10-1/2 | 265.0 | 0.354 | 9.0 | 3.070 | 78.0 | 120 | 534 | 100 |
| CTDL005A | 11-7/8 | 300.0 | 0.354 | 9.0 | 3.460 | 88.0 | 120 | 534 | 100 |
| CTDL006A | 14-3/16 | 360.0 | 0.354 | 9.0 | 3.940 | 100.0 | 120 | 534 | 100 |
| CTDL007A | 20 | 510.0 | 0.354 | 9.0 | 5.910 | 150.0 | 120 | 534 | 100 |
| CTDL008A | 24 | 610.0 | 0.354 | 9.0 | 7.090 | 180.0 | 120 | 534 | 100 |
| CTDL009A | 30 | 760.0 | 0.354 | 9.0 | 9.060 | 230.0 | 120 | 534 | 100 |

WITA-V0
UL94 V-0 Locking Cable Tie



Specifications:

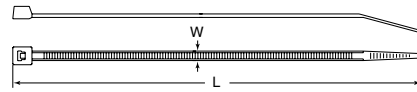
- Material: UL94 V-0 Nylon 6/6
- Color: Natural

| Item No. | L Ref. | | W Ref. | | Max Bundle Ø | | Tensile Strength | | Bulk Pack Qty. |
|---------------|--------|-------|--------|-----|--------------|------|------------------|-----|----------------|
| | In | mm | In | mm | In | mm | Lbs | N | |
| WITA-18R-V0-M | 4.720 | 120.0 | 0.100 | 2.5 | 1.060 | 26.9 | 18 | 80 | 1000 |
| WITA-50R-V0-M | 7.900 | 200.7 | 0.180 | 4.6 | 1.950 | 49.5 | 50 | 222 | 1000 |



CABLE TIES & INSTALLATION TOOLS

CTHS / WITA-HS Heat Stabilized Cable Tie



Specifications:

- Material: UL94 V-2 Heat Stabilized Nylon 6/6
- Color: Black
- Service Temperature: -40°F to 221°F (-40°C to 105°C)

Features:

- Suitable for higher temperature applications

| Item No. | Approval | L Ref. | | W Ref. | | Max Bundle Ø | | Tensile Strength | | Classification | Bulk Pack Qty. |
|----------------|----------|--------|-------|--------|-----|--------------|-------|------------------|-----|----------------|----------------|
| | | In | mm | In | mm | In | mm | Lbs | N | | |
| CT003F | Ⓢ | 4.000 | 100.0 | 0.098 | 2.5 | 0.980 | 25.0 | 18 | 80 | Miniature | 100 |
| WITA-18R-HS-M | — | 4.720 | 120.0 | 0.100 | 2.5 | 1.060 | 26.9 | 18 | 80 | Miniature | 1000 |
| CT005C | Ⓢ | 5.500 | 142.0 | 0.098 | 2.5 | 1.380 | 35.0 | 18 | 80 | Miniature | 100 |
| CT007C | Ⓢ | 8.000 | 203.0 | 0.098 | 2.5 | 2.170 | 55.0 | 18 | 80 | Miniature | 100 |
| WITA-40R-HS-M | — | 5.910 | 150.0 | 0.140 | 3.6 | 1.480 | 37.6 | 40 | 178 | Intermediate | 1000 |
| CT012D | Ⓢ | 8.000 | 203.0 | 0.142 | 3.6 | 2.170 | 55.0 | 40 | 178 | Intermediate | 100 |
| CT015C | Ⓢ | 11.500 | 292.0 | 0.142 | 3.6 | 3.350 | 85.0 | 40 | 178 | Intermediate | 100 |
| CT018C | Ⓢ | 4.7500 | 120.0 | 0.189 | 4.8 | 1.180 | 30.0 | 50 | 222 | Standard | 100 |
| CT019C | Ⓢ | 6.500 | 160.0 | 0.189 | 4.8 | 1.650 | 42.0 | 50 | 222 | Standard | 100 |
| CT021C | Ⓢ | 7.500 | 190.0 | 0.189 | 4.8 | 2.050 | 52.0 | 50 | 222 | Standard | 100 |
| WITA-50R-HS-M | — | 7.900 | 200.7 | 0.180 | 4.6 | 1.950 | 49.5 | 50 | 222 | Standard | 1000 |
| CT022C | Ⓢ | 8.000 | 203.0 | 0.181 | 4.6 | 2.170 | 55.0 | 50 | 222 | Standard | 100 |
| CT024C | Ⓢ | 11.000 | 280.0 | 0.189 | 4.8 | 3.190 | 81.0 | 50 | 222 | Standard | 100 |
| WITA-50RL-HS-M | — | 11.020 | 280.0 | 0.190 | 4.8 | 3.030 | 77.0 | 50 | 222 | Standard | 1000 |
| CT025C | Ⓢ | 11.875 | 300.0 | 0.189 | 4.8 | 3.350 | 85.0 | 50 | 222 | Standard | 100 |
| CT027F | Ⓢ | 14.500 | 368.0 | 0.189 | 4.8 | 4.020 | 102.0 | 50 | 222 | Standard | 100 |
| CT029F | Ⓢ | 17.000 | 432.0 | 0.189 | 4.8 | 4.920 | 125.0 | 50 | 222 | Standard | 100 |
| CT033C | — | 21.687 | 550.0 | 0.189 | 4.8 | 6.540 | 166.0 | 50 | 222 | Standard | 100 |
| CT067C | Ⓢ | 9.437 | 240.0 | 0.299 | 7.6 | 2.600 | 66.0 | 120 | 534 | Heavy Duty | 100 |
| CT072C | Ⓢ | 15.000 | 380.0 | 0.299 | 7.6 | 4.330 | 110.0 | 120 | 534 | Heavy Duty | 100 |
| CT075C | Ⓢ | 24.000 | 610.0 | 0.354 | 9.0 | 7.280 | 185.0 | 175 | 778 | Heavy Duty | 100 |

CTG Cable Tie Installation Tools



Figure 1



Figure 2



Figure 3



Figure 4



Figure 5



Figure 6

| Item No. | Figure | Used with Cable Ties | Features: | Pack Qty. |
|----------|--------|----------------------|---|-----------|
| WIT-1 | 1 | For 18 thru 50 lbs | Lightweight for job site installations and repairs | 1 |
| WIT-2A | 2 | For 18 thru 50 lbs | Heavy duty construction - cuts tie flush when adjustable preset bundling tension is reached | 1 |
| CTG004A | 3 | For 50 thru 175 lbs | Heavy duty construction | 1 |
| WIT-3A | 4 | For 18 thru 50 lbs | Economy model- Glass reinforced Nylon for lightweight durability | 1 |
| CTG010A | 5 | Stainless Steel | Tightens and Cuts Locking Stainless Steel ties | 1 |
| MTG-1 | 6 | Stainless Steel | Tightens and Cuts Locking Stainless Steel ties | 1 |

CTR / WIT-RT Standard Releasable Cable Tie

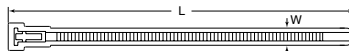


Figure 1

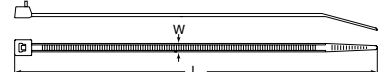


Figure 2

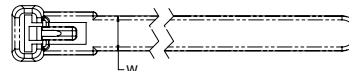


Figure 3

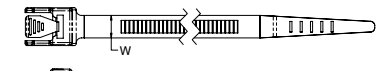


Figure 4

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: See Table

Features:

- Ties remain locked until intentionally released using press tab
- Great for temporary bundling purposes or future changes
- RoHS compliant

| Item No. | L Ref. | | W Ref. | | Max Bundle Ø | | Tensile Strength | | Bulk Pack Qty. | | |
|---------------|---------|-------------------------------|--------|-------|--------------|------|------------------|-------|----------------|------|------|
| | Natural | Black | In | mm | In | mm | Lbs | N | | | |
| WIT-RT-1-M | — | Black UV Stabilized Nylon 6/6 | 8.093 | 206.0 | 0.300 | 7.6 | 1.875 | 48.0 | 30 | 133 | 1000 |
| CTR006A | — | — | 4.000 | 100.0 | 0.142 | 3.6 | 1.000 | 25.0 | 40 | 178 | 100 |
| WIT-RT-0550-M | — | WITRT-0550-UV-M | 5.500 | 139.7 | 0.210 | 5.3 | 1.250 | 31.8 | 40 | 178 | 1000 |
| WIT-RT-0800-M | — | WITRT-0800-UV-M | 8.000 | 203.2 | 0.210 | 5.3 | 2.000 | 50.8 | 40 | 178 | 1000 |
| WIT-RT-1050-M | — | — | 10.500 | 266.7 | 0.210 | 5.3 | 2.500 | 63.5 | 40 | 178 | 1000 |
| WIT-50SR-M | CTR001A | — | 5.000 | 125.0 | 0.299 | 7.6 | 1.180 | 30.0 | 50 | 222 | 100 |
| WIT-50SR-M | — | WIT-50SR-UVB-M | 6.000 | 152.4 | 0.190 | 4.8 | 1.500 | 38.1 | 50 | 222 | 1000 |
| WIT-50RR-M | CTR002A | — | 8.000 | 203.2 | 0.190 | 4.8 | 2.000 | 50.8 | 50 | 222 | 1000 |
| WIT-50RR-M | — | WIT-50RR-UVB-M | 8.000 | 200.0 | 0.299 | 7.6 | 2.000 | 50.0 | 50 | 222 | 100 |
| CTR009A | — | — | 10.000 | 250.0 | 0.189 | 4.8 | 2.910 | 74.0 | 50 | 222 | 100 |
| WIT-50LR-M | — | WIT-50LR-UVB-M | 11.656 | 295.9 | 0.190 | 4.8 | 3.000 | 76.2 | 50 | 222 | 1000 |
| WIT-50LR-M | — | WIT-50LR-UVB-M | 11.656 | 295.9 | 0.190 | 4.8 | 3.000 | 76.2 | 50 | 222 | 1000 |
| — | CTR005A | — | 11.875 | 300.0 | 0.299 | 7.6 | 3.150 | 80.0 | 50 | 222 | 100 |
| CTR011A | — | — | 14.562 | 370.0 | 0.189 | 4.8 | 4.020 | 102.0 | 50 | 222 | 100 |
| WIT-RT-1525-Q | — | — | 15.250 | 387.4 | 0.520 | 13.2 | 4.000 | 101.6 | 250 | 1113 | 25 |
| WIT-RT-2150-Q | — | — | 21.500 | 546.1 | 0.520 | 13.2 | 6.000 | 152.4 | 250 | 1113 | 25 |
| WIT-RT-2775-Q | — | — | 27.750 | 704.9 | 0.520 | 13.2 | 8.000 | 203.2 | 250 | 1113 | 25 |



MT
UL Approved Stainless Steel Cable Tie



Specifications:

- Material: See Table
- Temperature Range: -328°F to 1000°F (-200°C to 538°C)

Features:

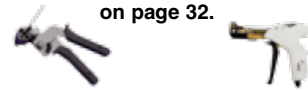
- Use 316 SS for corrosive environments
- Use Type 304 SS for general purpose indoor/outdoor applications
- Radiation, vibration and flame resistant

| Item No. | | | | Length | | Width | | Max Bundle Ø | | Tensile Strength | | Pack Qty. | Bulk Pack Qty. |
|---------------------|---------------------|----------|--------|--------|-------|-------|--------|--------------|-----|------------------|---|-----------|----------------|
| 304 Stainless Steel | 316 Stainless Steel | Approval | In | mm | In | mm | In | mm | Lbs | N | | | |
| MT-1 | MT-16 | RU | 5.000 | 127.0 | 0.180 | 4.6 | 1.000 | 25.4 | 100 | 445 | 1 | 100 | |
| MT-2 | MT-17 | RU | 7.910 | 201.0 | 0.180 | 4.6 | 2.000 | 51.0 | 100 | 445 | 1 | 100 | |
| MT-3 | MT-18 | RU | 10.200 | 259.0 | 0.180 | 4.6 | 2.750 | 70.0 | 100 | 445 | 1 | 100 | |
| MT-4 | MT-19 | RU | 14.250 | 362.0 | 0.180 | 4.6 | 4.000 | 102.0 | 100 | 445 | 1 | 100 | |
| MT-5 | MT-20 | RU | 20.510 | 521.0 | 0.180 | 4.6 | 6.000 | 152.0 | 100 | 445 | 1 | 100 | |
| MT-6 | MT-21 | RU | 26.730 | 679.0 | 0.180 | 4.6 | 8.000 | 203.0 | 100 | 445 | 1 | 100 | |
| MT-7 | MT-22 | RU | 32.990 | 838.0 | 0.180 | 4.6 | 10.000 | 254.0 | 100 | 445 | 1 | 100 | |
| MT-8 | MT-23 | RU | 39.290 | 998.0 | 0.180 | 4.6 | 12.000 | 304.0 | 100 | 445 | 1 | 50 | |
| MT-9 | MT-24 | RU | 49.210 | 1250.0 | 0.180 | 4.6 | 15.000 | 380.0 | 100 | 445 | 1 | 50 | |
| MT-10 | MT-25 | RU | 7.910 | 201.0 | 0.310 | 7.9 | 2.000 | 51.0 | 250 | 1113 | 1 | 100 | |
| MT-11 | MT-26 | RU | 14.250 | 362.0 | 0.310 | 7.9 | 4.000 | 102.0 | 250 | 1113 | 1 | 100 | |
| MT-12 | MT-27 | RU | 20.510 | 521.0 | 0.310 | 7.9 | 6.000 | 152.0 | 250 | 1113 | 1 | 100 | |
| MT-13 | MT-28 | RU | 26.730 | 679.0 | 0.310 | 7.9 | 8.000 | 203.0 | 250 | 1113 | 1 | 100 | |
| MT-14 | MT-29 | RU | 32.990 | 838.0 | 0.310 | 7.9 | 10.000 | 254.0 | 250 | 1113 | 1 | 50 | |
| MT-15 | MT-30 | RU | 39.290 | 998.0 | 0.310 | 7.9 | 12.000 | 304.0 | 250 | 1113 | 1 | 50 | |

CTSS
Stainless Steel Locking Tie



Use with Installation Tools CTG010A or MTG-1 on page 32.



Specifications:

- Material: See Table
- Temperature Range: -112°F to 1000°F (-80°C to 538°C)

See page 55 for Stainless Steel Cable Tie Holders.



Features:

- Self locking, can be installed by hand
- Excellent resistance to chemicals
- 304 Stainless Steel is an economical choice for light duty applications
- 316 Stainless Steel has superior corrosion resistance for rugged conditions

| Item No. | | Length | | Width | | Tensile Strength | | Pack Qty. | Bulk Pack Qty. |
|---------------------|---------------------|--------|-----|-------|-----|------------------|------|-----------|----------------|
| 304 Stainless Steel | 316 Stainless Steel | In | mm | In | mm | Lbs | N | | |
| CTSS0152A | CTSS0152B | 6.000 | 152 | 0.181 | 4.6 | 96 | 427 | 1 | 100 |
| CTSS0201A | CTSS0201B | 7.910 | 201 | 0.181 | 4.6 | 96 | 427 | 1 | 100 |
| CTSS0360A | CTSS0360B | 14.170 | 360 | 0.181 | 4.6 | 96 | 427 | 1 | 100 |
| CTSS0520A | CTSS0520B | 20.500 | 520 | 0.181 | 4.6 | 96 | 427 | 1 | 100 |
| CTSS0679A | CTSS0679B | 26.730 | 679 | 0.181 | 4.6 | 96 | 427 | 1 | 100 |
| CTSS2201A | CTSS2201B | 7.910 | 201 | 0.311 | 7.9 | 242 | 1076 | 1 | 100 |
| CTSS2362A | CTSS2362B | 14.250 | 362 | 0.311 | 7.9 | 242 | 1076 | 1 | 100 |
| CTSS2520A | CTSS2520B | 20.500 | 520 | 0.311 | 7.9 | 242 | 1076 | 1 | 100 |
| CTSS2679A | CTSS2679B | 26.750 | 679 | 0.311 | 7.9 | 242 | 1076 | 1 | 100 |
| CTSS2840A | CTSS2840B | 33.000 | 838 | 0.311 | 7.9 | 242 | 1076 | 1 | 100 |

CTCS
PVC Coated Stainless Steel Cable Tie



Specifications:

- Material 316 Grade Stainless Steel with Black PVC coating
- Temperature Range: -112°F to 302°F (-80°C - 150°C)

Features:

- Coated version offers edge protection and prevents corrosion between metals

| Item No. | Length | | Width | | Max Bundle Ø | | Tensile Strength | | Pack Qty. | Bulk Pack Qty. |
|-----------|--------|-------|-------|-----|--------------|-------|------------------|------|-----------|----------------|
| | In | mm | In | mm | In | mm | Lbs | N | | |
| CTCS0150B | 5.91 | 150.0 | 0.181 | 4.6 | 1.18 | 30.0 | 112.5 | 500 | 1 | 100 |
| CTCS0200B | 7.87 | 200.0 | 0.181 | 4.6 | 1.97 | 50.0 | 112.5 | 500 | 1 | 100 |
| CTCS0360B | 14.17 | 360.0 | 0.181 | 4.6 | 3.94 | 100.0 | 112.5 | 500 | 1 | 100 |
| CTCS0520B | 20.47 | 520.0 | 0.181 | 4.6 | 6.14 | 156.0 | 112.5 | 500 | 1 | 100 |
| CTCS0680B | 26.77 | 680.0 | 0.181 | 4.6 | 8.15 | 207.0 | 112.5 | 500 | 1 | 100 |
| CTCS1200B | 7.87 | 200.0 | 0.311 | 7.9 | 1.97 | 50.0 | 250.8 | 1115 | 1 | 100 |
| CTCS1360B | 14.17 | 360.0 | 0.311 | 7.9 | 3.94 | 100.0 | 250.8 | 1115 | 1 | 100 |
| CTCS1520B | 20.47 | 520.0 | 0.311 | 7.9 | 6.14 | 156.0 | 250.8 | 1115 | 1 | 100 |
| CTCS1680B | 26.77 | 680.0 | 0.311 | 7.9 | 8.15 | 207.0 | 250.8 | 1115 | 1 | 100 |
| CTCS1840B | 33.07 | 840.0 | 0.311 | 7.9 | 9.84 | 250.0 | 250.8 | 1115 | 1 | 100 |

CTLS / CTLC
Stainless Steel Ladder Tie

Specifications:

- Material: 316 Grade Stainless Steel available with Black PVC coating
- Uncoated Temperature Range: -112°F to 1000°F (-80°C - 538°C)
- Coated Temperature Range: Operating Temperature: -40°F (-40°C) to 250°F (120°C) {Intermittent up to 300°F (150°C)}



Features:

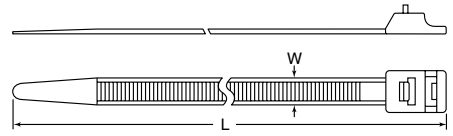
- Self locking design is easy to install
- Coated version offers protection between different metals
- Tensile strength up to 454 lbs

| Item No. | | Length | | Width | | Max Bundle Ø | | Tensile Strength | | Pack Qty. | Bulk Pack Qty. |
|-----------|-----------|--------|-------|-------|------|--------------|-------|------------------|------|-----------|----------------|
| Uncoated | Coated | In | mm | In | mm | In | mm | Lbs | N | | |
| CTLS0150B | CTLC0150B | 5.910 | 150.0 | 0.280 | 7.0 | 1.890 | 48.0 | 225 | 1000 | 1 | 100 |
| CTLS0225B | CTLC0225B | 8.860 | 225.0 | 0.280 | 7.0 | 2.800 | 71.0 | 225 | 1000 | 1 | 100 |
| CTLS0300B | CTLC0300B | 11.810 | 300.0 | 0.280 | 7.0 | 3.820 | 97.0 | 225 | 1000 | 1 | 100 |
| CTLS0450B | CTLC0450B | 17.720 | 450.0 | 0.280 | 7.0 | 5.710 | 145.0 | 225 | 1000 | 1 | 100 |
| CTLS0610B | CTLC0610B | 24.020 | 610.0 | 0.280 | 7.0 | 7.600 | 193.0 | 225 | 1000 | 1 | 100 |
| CTLS1150B | CTLC1150B | 5.910 | 150.0 | 0.470 | 12.0 | 1.890 | 48.0 | 454 | 2019 | 1 | 100 |
| CTLS1225B | CTLC1225B | 8.860 | 225.0 | 0.470 | 12.0 | 2.800 | 71.0 | 454 | 2019 | 1 | 100 |
| CTLS1300B | CTLC1300B | 11.810 | 300.0 | 0.470 | 12.0 | 3.820 | 97.0 | 454 | 2019 | 1 | 100 |
| CTLS1450B | CTLC1450B | 17.720 | 450.0 | 0.470 | 12.0 | 5.710 | 145.0 | 454 | 2019 | 1 | 100 |
| CTLS1610B | CTLC1610B | 24.020 | 610.0 | 0.470 | 12.0 | 7.600 | 193.0 | 454 | 2019 | 1 | 100 |



SPECIALTY CABLE TIES

CTRL Lashing Cable Tie



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural or UV Stabilized Black

Features:

- Feature an integral retaining loop that eliminates the need to cut the end of the tie
- Simply insert the tie end thru the retaining loop to hold the tie end flush

| Item No. | | L | | W | | Max Bundle Ø | | Tensile Strength | | Bulk Pack Qty. |
|----------|----------|----------|-----|-------|-------|--------------|-----|------------------|------|----------------|
| Natural | Black | In | mm | In | mm | In | mm | Lbs | N | |
| CTRL001A | CTRL001B | 9-7/16 | 240 | 0.504 | 12.80 | 2.362 | 60 | 250 | 1112 | 100 |
| CTRL002A | CTRL002B | 11-13/16 | 300 | 0.504 | 12.80 | 3.134 | 80 | 250 | 1112 | 100 |
| CTRL003A | CTRL003B | 16-11/32 | 415 | 0.504 | 12.80 | 4.567 | 116 | 250 | 1112 | 100 |
| CTRL004A | CTRL004B | 19-10/32 | 490 | 0.504 | 12.80 | 5.512 | 140 | 250 | 1112 | 100 |
| CTRL005A | CTRL005B | 23-7/32 | 590 | 0.504 | 12.80 | 6.732 | 171 | 250 | 1112 | 100 |

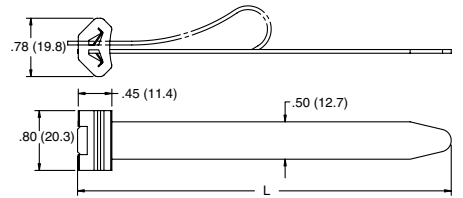
HDSB Heavy Duty Strap and Buckle

Specifications:

- Head Material: High Impact UV Stabilized Acetal
- Strap Material: See Table
- Color: Black

Features:

- For heavy duty applications; max tensile strength of 350 lbs.
- Steel teeth on buck grip the strap permanently
- Buckle is preassembled on one end of the strap
- Nylon strap material is high strength, lightweight, and relatively inexpensive
- Acetal strap material has excellent weatherability, superior dimension stability, and low-temperature toughness
- Installation tool available. Use Item No. WIT-HD-6



| Item No. | | Min Loop Tensile Strength Lbs. | L | | Max Bundle Ø | | Pack Qty. | Bulk Pack Qty. |
|---------------------------|---|--------------------------------|--------|--------|--------------|-------|-----------|----------------|
| Strap: UL94 V-2 Nylon 6/6 | Strap: High Impact UV Stabilized Acetal | | In | mm | In | mm | | |
| HDSB1-350-R | HDSB2-350-R | 350 | 15.000 | 381.0 | 4.000 | 101.6 | 1 | 50 |
| HDSB1-350-L | HDSB2-350-L | 350 | 33.000 | 838.2 | 9.700 | 246.4 | 1 | 25 |
| HDSB1-350-XL | HDSB2-350-XL | 350 | 50.000 | 1270.0 | 15.100 | 383.5 | 1 | 25 |

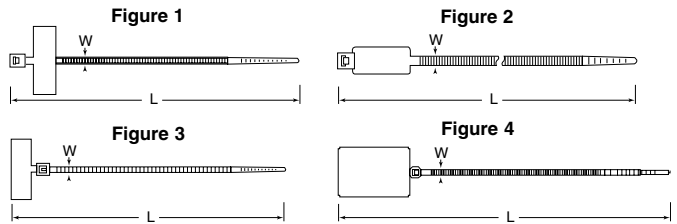
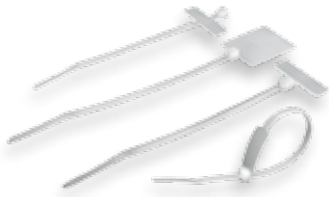
CTM / WITA-F Series Identification Marker Tie

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Identification label on tie that can be imprinted or written on with markers



| Item No. | Approval | Figure | L Ref. | | W Ref. | | Max Bundle Ø | | Tensile Strength | | Marker Pad | | Bulk Pack Qty. |
|---------------|----------|--------|--------|-------|--------|-----|--------------|------|------------------|-----|-------------|-------------|----------------|
| | | | In | mm | In | mm | In | mm | Lbs | N | In | mm | |
| CTM100A | RU | 1 | 4.000 | 100.0 | 0.098 | 2.5 | 1.000 | 25.0 | 18 | 80 | 1.00 x 0.32 | 25.0 x 8.0 | 100 |
| WITA-F2-18R-M | — | 3 | 4.330 | 110.0 | 0.100 | 2.5 | 0.980 | 25.0 | 18 | 80 | 1.00 X 0.31 | 25.0 X 7.9 | 1000 |
| CTM200A | RU | 3 | 4.375 | 110.0 | 0.098 | 2.5 | 1.000 | 25.0 | 18 | 80 | 1.00 x 0.32 | 25.0 x 8.0 | 100 |
| CTM400A | RU | 4 | 5.125 | 130.0 | 0.098 | 2.5 | 1.000 | 25.0 | 18 | 80 | 1.10 x 0.78 | 28.0 x 20.0 | 100 |
| CTM150A | RU | 1 | 7.875 | 200.0 | 0.098 | 2.5 | 2.000 | 50.0 | 18 | 80 | 1.18 x 0.60 | 30.0 x 15.0 | 100 |
| CTM300A | RU | 2 | 7.875 | 200.0 | 0.181 | 4.6 | 2.000 | 50.0 | 50 | 222 | 1.10 x 0.51 | 28.0 x 13.0 | 100 |
| CTM350A | RU | 2 | 10.625 | 270.0 | 0.181 | 4.6 | 3.000 | 75.0 | 50 | 222 | 1.10 x 0.51 | 28.0 x 13.0 | 100 |

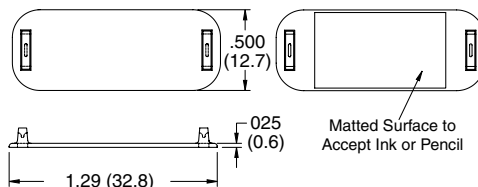
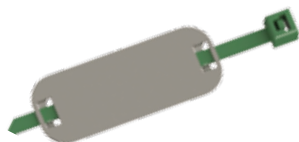
WIT-MK-1 Marker Tag for Cable Ties

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Slide any standard cable tie up to 50 lbs. through mounting slots (ties sold separately)
- Matted surface to accept ink, pencil or marker



| Item No. | Cable Ties Accepted | Bulk Pack Qty. |
|----------|---------------------|----------------|
| WIT-MK-1 | 18 Lbs to 50 Lbs | 1000 |



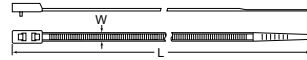
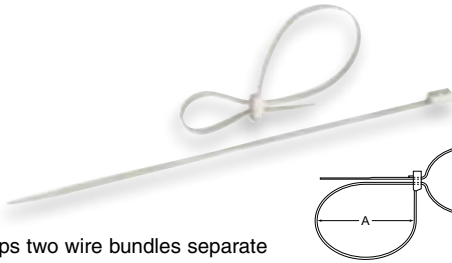
CTDH / WITA-DH
Double Headed Cable Tie

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: See Table

Features:

- Double head design keeps two wire bundles separate



| Item No. | | L | | W | | A Max | | A Min | | B Max | | B Min | | Tensile Strength | | Bulk Pack Qty. |
|---------------|---------------------|--------|-------|-------|-----|-------|-------|-------|-----|-------|------|-------|-----|------------------|-----|----------------|
| Natural | Black UV Stabilized | In | mm | In | mm | In | mm | In | mm | In | mm | In | mm | Lbs | N | |
| WITA-50RLDH-M | WITA50RLDH-UV-M | 8.875 | 225.0 | 0.189 | 4.8 | 2.300 | 59.0 | 0.098 | 2.5 | 2.000 | 52.0 | 0.079 | 2.0 | 50 | 222 | 1000 |
| CTDH002A | — | 11.875 | 300.0 | 0.189 | 4.8 | 3.300 | 83.0 | 0.098 | 2.5 | 3.000 | 76.0 | 0.079 | 2.0 | 50 | 222 | 1000 |
| WITA-50LDH-M | WITA-50LDH-UV-M | 14.560 | 370.0 | 0.189 | 4.8 | 4.100 | 105.0 | 0.098 | 2.5 | 3.900 | 98.0 | 0.079 | 2.0 | 50 | 222 | 1000 |

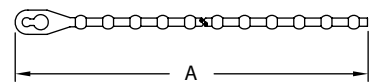
BT
Beaded Cable Tie

Specifications:

- Material: See Table
- Color: See Table

Features:

- Easy to install and release
- Beaded design keeps wires from shifting or slipping
- PP material is very flexible



| Item No. | | | | | A Ref. Length | | Max Bundle Ø Requires 3 Bead Engagement | | Bulk Pack Qty. |
|------------------------------|---------------------------------|-------------------------------|--------------------------------|-------------------------------|---------------|-------|---|------|----------------|
| Red UL94 HB Polypropylene | Yellow UL94 HB Polypropylene | Blue UL94 HB Polypropylene | Black UL94 HB Polypropylene | Natural UL94 V-2 Nylon 6/6 | In | mm | In | mm | |
| BT-2-10-RD | BT-2-10-YL | BT-2-10-BL | BT-2-10-BK | BT-2-01-NT | 2,500 | 63.5 | 0.563 | 14.3 | 1000 |
| BT-4-10-RD | BT-4-10-YL | BT-4-10-BL | BT-4-10-BK | BT-4-01-NT | 4,000 | 101.6 | 1.000 | 25.4 | 1000 |
| BT-5-10-RD | BT-5-10-YL | BT-5-10-BL | BT-5-10-BK | BT-5-01-NT | 5,000 | 127 | 1.250 | 31.8 | 1000 |
| BT-6-10-RD | BT-6-10-YL | BT-6-10-BL | BT-6-10-BK | BT-6-01-NT | 6,000 | 152.4 | 1.750 | 44.5 | 1000 |
| BT-8-10-RD | BT-8-10-YL | BT-8-10-BL | BT-8-10-BK | BT-8-01-NT | 8,750 | 222.3 | 2.375 | 60.3 | 1000 |
| BT-10-10-RD | BT-10-10-YL | BT-10-10-BL | BT-10-10-BK | BT-10-01-NT | 10,750 | 273.1 | 3.125 | 85.7 | 1000 |
| BT-12-10-RD | BT-12-10-YL | BT-12-10-BL | BT-12-10-BK | BT-12-01-NT | 12,750 | 323.9 | 3.625 | 92.1 | 1000 |

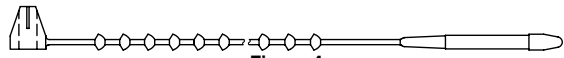
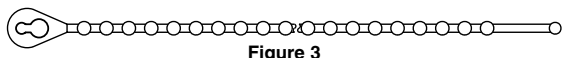
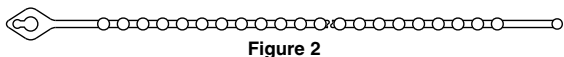
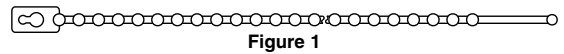
CTKT / LBT
Ball & Locking Beaded Cable Tie

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Easy to install & release
- Beaded design keeps wires from shifting or slipping
- RoHS compliant
- LBT-18-01 has a permanent locking feature



| Item No. | Approval | Figure | Length | | Width | | Max Bundle Ø | | Tensile Strength | | Bulk Pack Qty. |
|-----------|----------|--------|--------|-------|-------|-----|--------------|------|------------------|-----|----------------|
| | | | In | mm | In | mm | In | mm | Lbs | N | |
| CTKT001A | — | 1 | 4.000 | 101.6 | 0.086 | 2.2 | 1.000 | 25.4 | 18 | 80 | 1000 |
| CTKT002A | — | 1 | 4.750 | 120.6 | 0.094 | 2.4 | 1.180 | 30.0 | 18 | 80 | 1000 |
| LBT-18-01 | RA | 4 | 5.900 | 150.0 | 0.080 | 2.0 | 1.410 | 35.6 | 18 | 80 | 1000 |
| CTKT003A | — | 3 | 6.000 | 152.4 | 0.114 | 2.9 | 1.500 | 38.1 | 30 | 135 | 1000 |
| CTKT004A | — | 3 | 7.000 | 178 | 0.114 | 2.9 | 1.930 | 49.0 | 40 | 178 | 1000 |
| CTKT005A | — | 2 | 9.000 | 228.6 | 0.150 | 3.8 | 2.500 | 63.5 | 40 | 178 | 1000 |
| CTKT006A | — | 3 | 11.000 | 280 | 0.118 | 3 | 3.000 | 76.2 | 50 | 222 | 1000 |

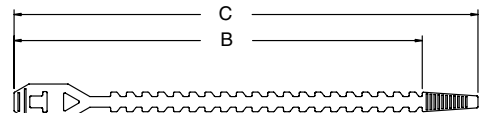
HT
Hanking Cable Tie

Specifications:

- Material: Polyethylene
- Color: Natural

Features:

- Good for wrapping electrical cords for shipping and packaging
- Extremely flexible



| Item No. | B Ref. | | C Ref. | | Max Bundle Ø | | Width of Strap | | Bulk Pack Qty. |
|----------|--------|-------|--------|-------|--------------|------|----------------|-----|----------------|
| | In | mm | In | mm | In | mm | In | mm | |
| HT-3.9 | 3.190 | 81.0 | 3.900 | 99.0 | 0.910 | 23.0 | 0.250 | 6.4 | 1000 |
| HT-4.9 | 4.210 | 107.0 | 4.920 | 125.0 | 1.100 | 28.0 | 0.250 | 6.4 | 1000 |
| HT-5.9 | 5.200 | 132.0 | 5.910 | 150.0 | 1.420 | 36.0 | 0.250 | 6.4 | 1000 |



SCREW MOUNT & SPECIALTY CABLE TIES

CWCT Wire Collect Cable Tie

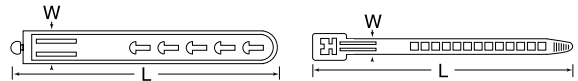


Figure 1

Figure 2

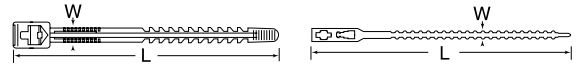


Figure 3

Figure 4

Specifications:

- Material: Polyethylene
- Color: See Table

Features:

- Low cost ties for shipping and packaging
- Easy to remove

| Item No. | | Figure | L | | W | | Max Bundle Ø | | Tensile Strength | | Bulk Pack Qty. |
|----------|----------|--------|--------|-------|-------|------|--------------|------|------------------|-----|----------------|
| Natural | Black | | In | mm | In | mm | In | mm | Lbs | N | |
| CWCT010A | CWCT010B | 1 | 5-1/8 | 130.0 | 0.591 | 15.0 | 1.380 | 35.0 | 30 | 133 | 100 |
| CWCT020A | CWCT020B | 2 | 5-1/2 | 140.0 | 0.354 | 9.0 | 1.500 | 38.0 | 18 | 80 | 100 |
| CWCT030A | CWCT030B | 3 | 6-1/4 | 160.0 | 0.354 | 9.0 | 1.770 | 45.0 | 18 | 80 | 100 |
| CWCT040A | CWCT040B | 4 | 9-1/16 | 234.0 | 0.217 | 5.5 | 2.000 | 50.0 | 18 | 80 | 100 |



CTMT Screw Mount Cable Tie

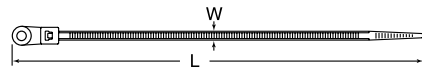


Figure 1



Figure 2

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

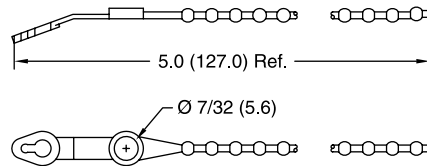
Features:

- Mountable with single screw or bolt

| Item No. | Figure | L | | W | | Max Bundle Ø | | Tensile Strength | | Screw Size | Bulk Pack Qty. |
|----------|--------|--------|-----|-------|-----|--------------|-----|------------------|-----|------------|----------------|
| | | In | mm | In | mm | In | mm | Lbs | N | | |
| CTMT001A | 1 | 4 | 100 | 0.098 | 2.5 | 0.980 | 25 | 18 | 80 | #4 | 100 |
| CTMT002A | 1 | 6 | 155 | 0.146 | 3.7 | 1.580 | 40 | 40 | 178 | #8 | 100 |
| CTMT003A | 1 | 8 | 205 | 0.165 | 4.2 | 2.360 | 60 | 50 | 222 | #8 | 100 |
| CTMT004A | 1 | 11-7/8 | 300 | 0.189 | 4.8 | 3.350 | 85 | 50 | 222 | #8 | 100 |
| CTMT005A | 1 | 14-1/2 | 370 | 0.189 | 4.8 | 4.020 | 102 | 50 | 222 | #8 | 100 |
| CTMT006A | 2 | 15-3/4 | 398 | 0.311 | 7.9 | 4.800 | 122 | 120 | 534 | 1/4 | 100 |
| CTMT007A | 2 | 11-7/8 | 300 | 0.307 | 7.8 | 3.150 | 80 | 120 | 534 | 1/4 | 100 |



ST Screw Mount Beaded Cable Tie



Specifications:

- Material: See table
- Color: Natural
- Easily and securely mounted with a #12 (M5) screw

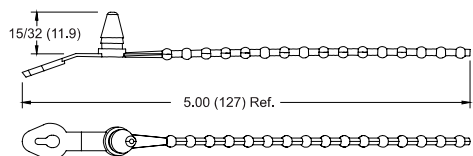
Features:

- Tie is easily releasable
- PP material is very flexible

| Item No. | Material | Material UL Rating | Bundle Ø Range | | Mounting Method | Bulk Pack Qty. |
|----------|-----------------------|--------------------|----------------|----------|-----------------|----------------|
| | | | In | mm | | |
| ST-205 | UL94 HB Polypropylene | UL94 HB | .250-1.250 | 6.4-31.8 | #12 Screw | 1000 |
| ST-305 | UL94 V-2 Nylon 6/6 | UL94 V-2 | .250-1.250 | 6.4-31.8 | #12 Screw | 1000 |



PT Push In Beaded Cable Tie



Specifications:

- Material: See table
- Color: See table

Features:

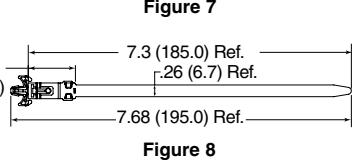
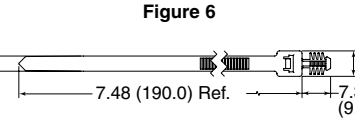
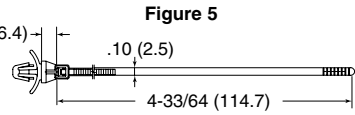
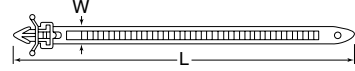
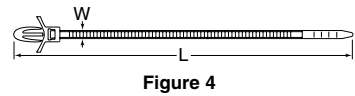
- Easily snaps into mounting hole
- Tie is easily releasable
- PP material is very flexible

| Item No. | | Color | Bundle Ø Range | | Mounting Hole Ø | | Panel Thickness | | Bulk Pack Qty. |
|------------|--------------------|---------|----------------|------------|-----------------|-----|-----------------|-----------|----------------|
| UL94 HB PP | UL94 V-2 Nylon 6/6 | | In | mm | In | mm | In | mm | |
| PT-203 | PT-303 | Black | 1/4 - 1-1/4 | 6.4 - 31.8 | 0.250 | 6.4 | 1/32 - 1/8 | 0.8 - 3.2 | 1000 |
| PT-205 | PT-305 | Natural | 1/4 - 1-1/4 | 6.4 - 31.8 | 0.250 | 6.4 | 1/32 - 1/8 | 0.8 - 3.2 | 1000 |





**CTPM / WIT-A / WITBH
 Push Mount Cable Tie**



Specifications:

- Material: UL94 V-2 Nylon 6/6
- WITBH-50R-HS Material: UL94 V-2 Heat Stabilized Nylon serviceable to 239°F
- Color: Natural

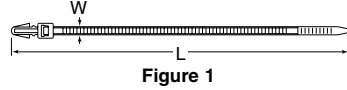


Figure 1

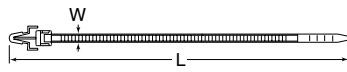


Figure 2

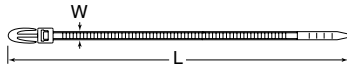


Figure 3

Features:

- Easily snaps into pre-drilled holes
- Can be mounted to installation before final assembly
- Combines a cable tie, mount and fastener in a single part
- Figures 2 and 8 are removable from the top of the board

| Item No. | Approval | Figure | L Ref. | | W Ref. | | Max Bundle Ø | | Tensile Strength | | Mounting Hole Ø | | Panel Thickness | | Bulk Pack Qty. |
|-----------------|----------|--------|--------------|--------------|--------|-----|--------------|------|------------------|-----|-----------------|-----------|-----------------|-----------|----------------|
| | | | In | mm | In | mm | In | mm | Lbs | N | In | mm | In | mm | |
| CTPM001A | RA | 1 | 6.125 | 155.0 | 0.138 | 3.5 | 1.570 | 40.0 | 40 | 178 | 0.187 | 4.7 | 0.118 | 2.9 | 100 |
| CTPM003A | — | 1 | 5.125 | 130.0 | 0.189 | 4.8 | 1.180 | 30.0 | 50 | 222 | 0.187 | 4.7 | 0.118 | 2.9 | 100 |
| WIT-50RLA-1 | — | 1 | 5.320 | 135.0 | 0.190 | 4.8 | 1.000 | 25.4 | 50 | 222 | 0.250 | 6.4 | 0.125 | 3.18 | 1000 |
| WIT-50RLA-2 | — | 1 | 6.690 | 170.0 | 0.190 | 4.8 | 1.500 | 38.1 | 50 | 222 | 0.250 | 6.4 | 0.125 | 3.18 | 1000 |
| WIT-50RLA-3 | — | 1 | 7.870 | 200.0 | 0.190 | 4.8 | 1.750 | 44.5 | 50 | 222 | 0.250 | 6.4 | 0.125 | 3.18 | 1000 |
| CTPM004A | — | 1 | 8.000 | 203.0 | 0.189 | 4.8 | 2.000 | 50.8 | 50 | 222 | 0.187 | 4.7 | 0.118 | 2.9 | 100 |
| CTPM002A | — | 1 | 8.000 | 203.0 | 0.189 | 4.8 | 2.000 | 50.8 | 50 | 222 | 0.250 | 6.4 | 0.118 | 2.9 | 100 |
| WIT-50RLA-M | RA | 1 | 8.870 | 225.4 | 0.190 | 4.8 | 2.000 | 50.8 | 50 | 222 | 0.187 | 4.7 | 0.093 | 2.36 | 1000 |
| WIT-30RAR1-2 | — | 2 | 5.125 | 130 | 0.14 | 3.6 | 1.000 | 25.4 | 30 | 135 | 0.189 | 4.8 | 0.079 - 0.094 | 2.0 - 2.4 | 100 |
| CTPM005A | — | 2 | 5.125 | 130.0 | 0.138 | 3.5 | 1.180 | 30.0 | 40 | 178 | 0.187 | 4.7 | 0.094 | 2.3 | 100 |
| CTPM006A | — | 2 | 8.000 | 200.0 | 0.138 | 3.5 | 2.000 | 50.8 | 40 | 178 | 0.187 | 4.7 | 0.094 | 2.3 | 100 |
| WIT-30LAR1-2 | — | 2 | 6.125 | 155.5 | 0.14 | 3.6 | 1.25 | 31.8 | 30 | 135 | 0.189 | 4.8 | 0.079 - 0.094 | 2.0 - 2.4 | 100 |
| CTPM007A | — | 3 | 5.125 | 130.0 | 0.189 | 4.8 | 1.180 | 30.0 | 50 | 222 | 0.250 | 6.4 | 0.098 | 2.4 | 100 |
| CTPM008A | — | 3 | 8.000 | 200.0 | 0.189 | 4.8 | 2.000 | 50.8 | 50 | 222 | 0.250 | 6.4 | 0.130 | 3.3 | 100 |
| CTPM009A | — | 4 | 4.750 | 112.0 | 0.098 | 2.5 | 1.000 | 25.4 | 18 | 80 | 0.187 | 4.7 | 0.120 | 3 | 100 |
| CTPM010A | — | 4 | 6.125 | 155.0 | 0.138 | 3.5 | 1.420 | 36.0 | 40 | 178 | 0.187 | 4.7 | 0.118 | 2.9 | 100 |
| CTPM011A | RA | 4 | 5.125 | 130.0 | 0.189 | 4.8 | 1.180 | 30.0 | 50 | 222 | 0.234 | 5.9 | 0.110 | 2.8 | 100 |
| CTPM012A | RA | 4 | 8.000 | 200.0 | 0.189 | 4.8 | 2.000 | 50.8 | 50 | 222 | 0.234 | 5.9 | 0.110 | 2.8 | 100 |
| WIT-18RA-01 | — | 5 | 4.290 | 109.0 | 0.100 | 2.5 | 0.830 | 21.0 | 18 | 80 | 0.190 | 4.8 | 0.060 | 1.6 | 1000 |
| CTPM101A | — | 5 | 6.000 | 152.0 | 0.315 | 8.0 | 1.460 | 37.0 | 90 | 400 | 0.218 | 5.5 | 0.078 | 1.9 | 100 |
| WIT-50SA-01 | — | 5 | 5.240 | 133.0 | 0.190 | 4.8 | 0.910 | 23.0 | 50 | 222 | 0.250 | 6.4 | 0.060 | 1.6 | 1000 |
| WIT-50SA-1-01 | — | 5 | 5.240 | 133.0 | 0.190 | 4.8 | 0.910 | 23.0 | 50 | 222 | 0.250 - 0.270 | 6.4 - 6.8 | 0.030 - 0.080 | 0.8 - 2.0 | 1000 |
| WIT-50SRA-01 | — | 5 | 6.810 | 173.0 | 0.190 | 4.8 | 1.420 | 36.0 | 50 | 222 | 0.250 | 6.4 | 0.060 | 1.6 | 1000 |
| WIT-50SRA-1-01 | — | 5 | 6.810 | 173.0 | 0.190 | 4.8 | 1.420 | 36.0 | 50 | 222 | 0.250 - 0.270 | 6.4 - 6.8 | 0.030 - 0.080 | 0.8 - 2.0 | 1000 |
| WIT-50RA-01 | — | 5 | 7.800 | 198.0 | 0.190 | 4.8 | 1.690 | 43.0 | 50 | 222 | 0.250 | 6.4 | 0.060 | 1.6 | 500 |
| WIT-50RA-1-01 | — | 5 | 7.800 | 198.0 | 0.190 | 4.8 | 1.690 | 43.0 | 50 | 222 | 0.250 - 0.270 | 6.4 - 6.8 | 0.030 - 0.080 | 0.8 - 2.0 | 500 |
| WIT-18R1A-4-01 | RA | 6 | 4.760 | 121.1 | 0.100 | 2.5 | 0.750 | 19.1 | 18 | 80 | 0.156 | 4.0 | 0.031 - 0.078 | 0.8 - 2.0 | 1000 |
| WIT-18RA-4-01-M | RA | 6 | 4.760 | 121.1 | 0.100 | 2.5 | 0.750 | 19.1 | 18 | 80 | 0.187 | 4.8 | 0.031 - 0.078 | 0.8 - 2.0 | 1000 |
| WIT-18R2A-4-01 | RA | 6 | 4.760 | 121.1 | 0.100 | 2.5 | 0.750 | 19.1 | 18 | 80 | 0.187 | 4.8 | 0.062 - 0.140 | 1.6 - 3.6 | 1000 |
| WITBH-50R | — | 7 | See Figure 7 | See Figure 7 | — | — | 1.750 | 44.5 | 50 | 228 | 0.25 | 6.4 | 0.250 | 6.4 | 100 |
| WITBH-50R-HS | — | 7 | See Figure 7 | See Figure 7 | — | — | 1.750 | 44.5 | 50 | 228 | 0.25 | 6.4 | 0.250 | 6.4 | 100 |
| WIT-40LAR | — | 8 | See Figure 8 | See Figure 8 | — | — | 1.970 | 50 | 40 | 178 | 0.187 | 4.8 | 0.020 - 0.091 | 0.5 - 2.3 | 100 |

**WIT-30RRA / TOAH
 Releasable Arrowhead Cable Tie**



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Combines cable tie, mount & fastener in a single part
- Used to attach wire or cable bundles to a surface
- Easily snaps into pre-drilled holes
- WIT-30RRA part has a spacer after the arrowhead

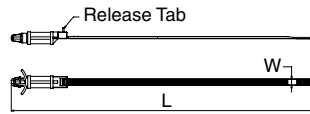


Figure 1

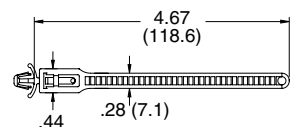


Figure 2

| Item No. | Approval | Figure | L Ref. | | W Ref. | | Max Bundle Ø | | Tensile Strength | | Mounting Hole Ø | | Panel Thickness | | Spacer Length | | Bulk Pack Qty. |
|-----------------|----------|--------|--------|-------|--------|-----|--------------|------|------------------|-----|-----------------|-----|-----------------|-----------|---------------|------|----------------|
| | | | In | mm | In | mm | In | mm | Lbs | N | In | mm | In | mm | In | mm | |
| WIT-30RRA-4-M | RA | 1 | 6.300 | 160.3 | 0.140 | 3.6 | 1.250 | 31.8 | 30 | 135 | 0.187 | 4.8 | 0.030 - 0.078 | 0.8 - 2.0 | 0.280 | 7.1 | 1000 |
| WIT-30RRA-8-M | RA | 1 | 6.600 | 166.7 | 0.140 | 3.6 | 1.250 | 31.8 | 30 | 135 | 0.187 | 4.8 | 0.030 - 0.078 | 0.8 - 2.0 | 0.530 | 13.5 | 1000 |
| WIT-30RRA-12-M | RA | 1 | 6.800 | 173.0 | 0.140 | 3.6 | 1.250 | 31.8 | 30 | 135 | 0.187 | 4.8 | 0.030 - 0.078 | 0.8 - 2.0 | 0.780 | 19.8 | 1000 |
| WIT-30RRA-16-M | RA | 1 | 7.100 | 179.4 | 0.140 | 3.6 | 1.250 | 31.8 | 30 | 135 | 0.187 | 4.8 | 0.030 - 0.078 | 0.8 - 2.0 | 1.000 | 25.4 | 1000 |
| WIT-30RRAA-4-M | — | 1 | 6.400 | 161.6 | 0.140 | 3.6 | 1.250 | 31.8 | 30 | 135 | 0.250 | 6.4 | 0.030 - 0.078 | 0.8 - 2.0 | 0.280 | 7.1 | 1000 |
| WIT-30RRAA-8-M | — | 1 | 6.600 | 168.0 | 0.140 | 3.6 | 1.250 | 31.8 | 30 | 135 | 0.250 | 6.4 | 0.030 - 0.078 | 0.8 - 2.0 | 0.530 | 13.5 | 1000 |
| WIT-30RRAA-12-M | — | 1 | 6.900 | 174.3 | 0.140 | 3.6 | 1.250 | 31.8 | 30 | 135 | 0.250 | 6.4 | 0.030 - 0.078 | 0.8 - 2.0 | 0.780 | 19.8 | 1000 |
| WIT-30RRAA-16-M | — | 1 | 7.100 | 180.7 | 0.140 | 3.6 | 1.250 | 31.8 | 30 | 135 | 0.250 | 6.4 | 0.030 - 0.078 | 0.8 - 2.0 | 1.000 | 25.4 | 1000 |
| TOAH-18-01 | — | 2 | 4.670 | 118.6 | 0.280 | 7.1 | 1.125 | 28.5 | 40 | 178 | 0.250 | 6.4 | 0.062 | 1.6 | — | — | 1000 |



CABLE TIES & STRAPS

TOBS Adhesive/Screw Mount Tie

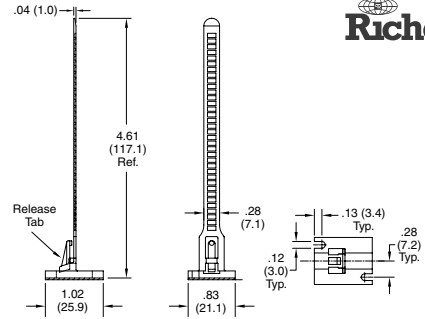


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Black

Features:

- Mounts with two #4 (M3) screws or adhesive
- Cable tie is releasable



| Item No. | Slots for Screw Size | | Max Bundle Ø | | Bulk Pack Qty. |
|----------------|----------------------|----|--------------|------|----------------|
| | In | mm | In | mm | |
| TOBS-18-01A-RT | #4 | M3 | 1.125 | 28.5 | 1000 |

ES Rubber Strap with Locking Button



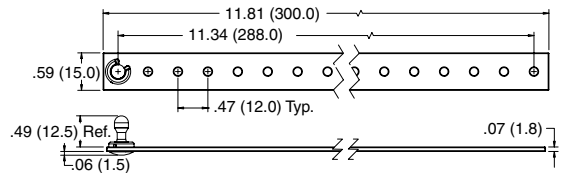
Specifications:

- Material: Strap; Silicone Rubber, 50 Shore A Latch Pin; UL94 HB Nylon 6/6
- Color: Black



Features:

- Rubber strap can be stretched and wrapped around bundles up to three times
- Grips the cables preventing movement
- For additional latch pins, order part number CS-113-6



| Item No. | Max Bundle Ø | | Max Perimeter | | Pack Qty. | Bulk Pack Qty. |
|----------|--------------|-------|---------------|-------|-----------|----------------|
| | In | mm | In | mm | | |
| ES-1 | 4.330 | 110.0 | 13.600 | 345.0 | 1 | 100 |

RNS / LB Nylon Strap with Locking Button

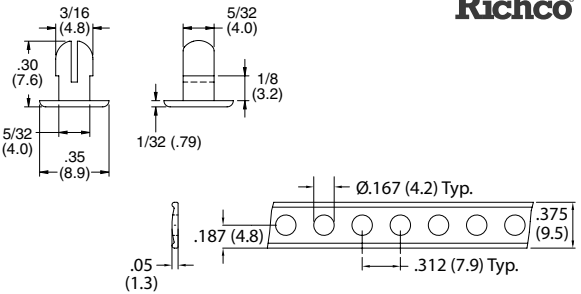


Specifications:

- Material: Nylon 6/6
- Color: Black

Features:

- 100 foot long strap can be cut to desired length
- Once bundle is wrapped, the strap is secured with mounting button, LB-5



| Item No. | Description | Material | Material UL Rating | Bulk Pack Qty. |
|----------|----------------|-----------|--------------------|----------------|
| RNS-167 | Strap | Nylon 6/6 | UL94 HB | 100 ft. |
| LB-5 | Locking Button | Nylon 6/6 | UL94 V-2 | 100 |

RKS Hook and Loop Strap

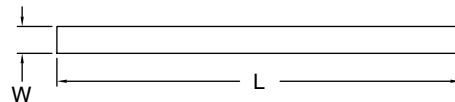


Specifications:

- Material: Hook: Low Density Polyethylene Loop: Nylon Knit
- Color: See table

Features:

- Heavy duty hook and loop
- Features VELCRO® brand hook and loop material
- User can cut to desired length
- Excellent in reusable applications



| Item No. | Color | L Length | | W Width | | Bulk Pack Qty. |
|----------------|-------|----------|-------|---------|------|----------------|
| | | In | mm | In | mm | |
| RKS-8-6-BK-C | Black | 6.0 | 152.4 | 1/2 | 12.7 | 100 |
| RKS-8-6-BK-W | White | 6.0 | 152.4 | 1/2 | 12.7 | 10 |
| RKS-8-8-BK-C | Black | 8.0 | 203.2 | 1/2 | 12.7 | 100 |
| RKS-8-8-BK-W | White | 8.0 | 203.2 | 1/2 | 12.7 | 10 |
| RKS-8-12-BK-C | Black | 12.0 | 304.8 | 1/2 | 12.7 | 100 |
| RKS-8-12-BK-W | White | 12.0 | 304.8 | 1/2 | 12.7 | 10 |
| RKS-12-6-BK-C | Black | 6.0 | 152.4 | 3/4 | 19.1 | 100 |
| RKS-12-6-BK-W | White | 6.0 | 152.4 | 3/4 | 19.1 | 10 |
| RKS-12-8-BK-C | Black | 8.0 | 203.2 | 3/4 | 19.1 | 100 |
| RKS-12-8-BK-W | White | 8.0 | 203.2 | 3/4 | 19.1 | 10 |
| RKS-12-12-BK-C | Black | 12.0 | 304.8 | 3/4 | 19.1 | 100 |
| RKS-12-12-BK-W | White | 12.0 | 304.8 | 3/4 | 19.1 | 10 |
| RKS-16-8-BK-C | Black | 8.0 | 203.2 | 1.0 | 25.4 | 100 |
| RKS-16-8-BK-W | White | 8.0 | 203.2 | 1.0 | 25.4 | 10 |
| RKS-16-12-BK-C | Black | 12.0 | 304.8 | 1.0 | 25.4 | 100 |
| RKS-16-12-BK-W | White | 12.0 | 304.8 | 1.0 | 25.4 | 10 |



**RKWB / RKWFA
Hook & Loop Clamp**



Specifications:

- Material: Hook and Loop
- Color: Black

Features:

- Hook and Loop design
- RKWB accommodates multiple bundle diameters; up to 1-1/2"
- RKWFA accommodates multiple bundle diameters; up to .75"

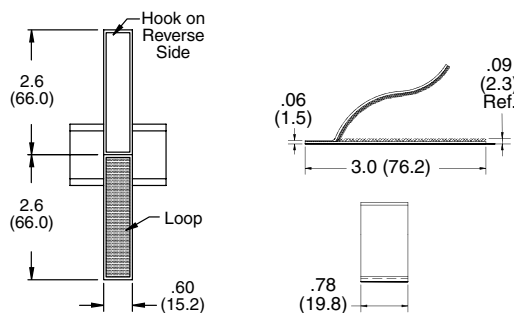


Figure 1

Figure 2

| Item No. | Figure | Max Bundle Ø | | Base | | Pack Qty. | Bulk Pack Qty. |
|----------|--------|--------------|------|---------------|-------------|-----------|----------------|
| | | In | mm | In | mm | | |
| RKWB-1 | 1 | 1.5 | 38.1 | 2.000 x 1.000 | 50.8 x 25.4 | 1 | 100 |
| RKWFA-1 | 2 | 0.75 | 19.1 | 3.000 x 0.780 | 52.3 x 19.8 | 1 | 100 |

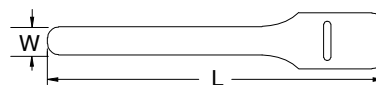
**CTHL / RKW
Hook & Loop Cable Tie**

Specifications:

- Material: Loop - Nylon Knit
Hook - Low Density Polyethylene
- Color: See Table

Features:

- Easy assembly & removal
- Can be fastened & released several times
- Features: VELCRO® brand hook & loop material



See page 55 for Hook & Loop Cable Tie Holders.

| Item No. | Color | | | | Screw Mount | L | | W | | Max Bundle Ø | | Bulk Pack Qty. |
|--------------|--------------|--------------|--------------|------|-------------|-------|-------|-------|-------|--------------|------|----------------|
| | Black | Blue | Green | Grey | | In | mm | In | mm | In | mm | |
| CTHL001A | — | — | — | — | No | 5.000 | 127.0 | 0.472 | 12.0 | 1.181 | 30.0 | 20 |
| CTHL002A | — | — | — | — | No | 5.313 | 135.0 | 0.472 | 12.0 | 1.299 | 33.0 | 20 |
| RKW-6-6-BK | RKW-6-6-BL | RKW-6-6-GN | RKW-6-6-GY | No | 6.000 | 152.4 | 0.380 | 9.5 | 1.400 | 35.6 | 10 | |
| RKW-8-6-BK | RKW-8-6-BL | RKW-8-6-GN | RKW-8-6-GY | No | 6.000 | 152.4 | 0.500 | 12.7 | 1.400 | 35.6 | 10 | |
| CTHL003A | — | — | — | No | 7.063 | 415.0 | 0.472 | 12.0 | 1.575 | 40.0 | 20 | |
| RKW-8-8-BK | RKW-8-8-BL | RKW-8-8-GN | RKW-8-8-GY | Yes | 8.000 | 203.2 | 0.500 | 12.7 | 1.920 | 48.7 | 10 | |
| CTHL004A | — | — | — | No | 8.250 | 210.0 | 0.630 | 16.0 | 1.969 | 50.0 | 20 | |
| RKW-8-9-BK | RKW-8-9-BL | RKW-8-9-GN | RKW-8-9-GY | Yes | 9.000 | 228.6 | 0.500 | 12.7 | 2.140 | 54.4 | 10 | |
| RKW-8-11-BK | RKW-8-11-BL | RKW-8-11-GN | RKW-8-11-GY | No | 11.000 | 279.4 | 0.500 | 12.7 | 2.618 | 66.5 | 10 | |
| RKW-8-12-BK | RKW-8-12-BL | RKW-8-12-GN | RKW-8-12-GY | Yes | 12.000 | 304.8 | 0.500 | 12.7 | 2.856 | 72.5 | 10 | |
| CTHL005A | — | — | — | No | 12.813 | 310.0 | 0.630 | 16.0 | 3.346 | 85.0 | 20 | |
| RKW-8-13-BK | RKW-8-13-BL | RKW-8-13-GN | RKW-8-13-GY | Yes | 13.000 | 330.2 | 0.500 | 12.7 | 3.396 | 86.3 | 10 | |
| RKW-12-9-BK | RKW-12-9-BL | RKW-12-9-GN | RKW-12-9-GY | Yes | 9.000 | 228.6 | 0.750 | 19.1 | 2.140 | 54.4 | 10 | |
| RKW-12-13-BK | RKW-12-13-BL | RKW-12-13-GN | RKW-12-13-GY | Yes | 13.000 | 330.2 | 0.750 | 19.1 | 3.396 | 86.3 | 10 | |
| RKW-12-15-BK | RKW-12-15-BL | RKW-12-15-GN | RKW-12-15-GY | No | 15.000 | 381.0 | 0.750 | 19.1 | 3.918 | 99.5 | 10 | |
| RKW-12-18-BK | RKW-12-18-BL | RKW-12-18-GN | RKW-12-18-GY | No | 18.000 | 457.2 | 0.750 | 19.1 | 4.716 | 119.8 | 10 | |
| RKW-12-24-BK | RKW-12-24-BL | RKW-12-24-GN | RKW-12-24-GY | No | 24.000 | 609.6 | 0.750 | 19.1 | 6.288 | 159.7 | 10 | |

| Item No. | Color | | | | Screw Mount | L | | W | | Max Bundle Ø | | Bulk Pack Qty. |
|--------------|--------------|-------------|--------------|--------|-------------|-------|-------|------|-------|--------------|----|----------------|
| | Orange | Red | White | Yellow | | In | mm | In | mm | In | mm | |
| — | — | — | — | No | 5.000 | 127.0 | 0.472 | 12.0 | 1.181 | 30.0 | 20 | |
| — | — | — | — | No | 5.313 | 135.0 | 0.472 | 12.0 | 1.299 | 33.0 | 20 | |
| RKW-6-6-OR | RKW-6-6-RD | RKW-6-6-W | RKW-6-6-YL | No | 6.000 | 152.4 | 0.380 | 9.5 | 1.400 | 35.6 | 10 | |
| RKW-8-6-OR | RKW-8-6-RD | RKW-8-6-W | RKW-8-6-YL | No | 6.000 | 152.4 | 0.500 | 12.7 | 1.400 | 35.6 | 10 | |
| — | — | — | — | No | 7.063 | 415.0 | 0.472 | 12.0 | 1.575 | 40.0 | 20 | |
| RKW-8-8-OR | RKW-8-8-RD | RKW-8-8-W | RKW-8-8-YL | Yes | 8.000 | 203.2 | 0.500 | 12.7 | 1.920 | 48.7 | 10 | |
| — | — | — | — | No | 8.250 | 210.0 | 0.630 | 16.0 | 1.969 | 50.0 | 20 | |
| RKW-8-9-OR | RKW-8-9-RD | RKW-8-9-W | RKW-8-9-YL | Yes | 9.000 | 228.6 | 0.500 | 12.7 | 2.140 | 54.4 | 10 | |
| RKW-8-11-OR | RKW-8-11-RD | RKW-8-11-W | RKW-8-11-YL | No | 11.000 | 279.4 | 0.500 | 12.7 | 2.618 | 66.5 | 10 | |
| RKW-8-12-OR | RKW-8-12-RD | RKW-8-12-W | RKW-8-12-YL | Yes | 12.000 | 304.8 | 0.500 | 12.7 | 2.856 | 72.5 | 10 | |
| — | — | — | — | No | 12.813 | 310.0 | 0.630 | 16.0 | 3.346 | 85.0 | 20 | |
| RKW-8-13-OR | RKW-8-13-RD | RKW-8-13-W | RKW-8-13-YL | Yes | 13.000 | 330.2 | 0.500 | 12.7 | 3.396 | 86.3 | 10 | |
| RKW-12-9-OR | RKW-12-9-RD | RKW-12-9-W | RKW-12-9-YL | Yes | 9.000 | 228.6 | 0.750 | 19.1 | 2.140 | 54.4 | 10 | |
| RKW-12-13-OR | RKW-12-13-RD | RKW-12-13-W | RKW-12-13-YL | Yes | 13.000 | 330.2 | 0.750 | 19.1 | 3.396 | 86.3 | 10 | |
| RKW-12-15-OR | RKW-12-15-RD | RKW-12-15-W | RKW-12-15-YL | No | 15.000 | 381.0 | 0.750 | 19.1 | 3.918 | 99.5 | 10 | |
| RKW-12-18-OR | RKW-12-18-RD | RKW-12-18-W | RKW-12-18-YL | No | 18.000 | 457.2 | 0.750 | 19.1 | 4.716 | 119.8 | 10 | |
| RKW-12-24-OR | RKW-12-24-RD | RKW-12-24-W | RKW-12-24-YL | No | 24.000 | 609.6 | 0.750 | 19.1 | 6.288 | 159.7 | 10 | |

| Item No. | Screw Mount | L | | W | | Max Bundle Ø | | Bulk Pack Qty. |
|----------------|-------------|--------|-------|-------|------|--------------|--------|----------------|
| | | In | mm | In | mm | In | mm | |
| RKW-6-6-BK-C | No | 6.000 | 152.4 | 0.380 | 9.5 | 1.400 | 35.56 | 100 |
| RKW-8-6-BK-C | No | 6.000 | 152.4 | 0.500 | 12.7 | 1.400 | 35.56 | 100 |
| RKW-8-8-BK-C | Yes | 8.000 | 203.2 | 0.500 | 12.7 | 1.920 | 48.70 | 100 |
| RKW-8-9-BK-C | Yes | 9.000 | 228.6 | 0.500 | 12.7 | 2.140 | 54.40 | 100 |
| RKW-8-11-BK-C | No | 11.000 | 279.4 | 0.500 | 12.7 | 2.618 | 66.50 | 100 |
| RKW-8-12-BK-C | Yes | 12.000 | 304.8 | 0.500 | 12.7 | 2.856 | 72.54 | 100 |
| RKW-8-13-BK-C | Yes | 13.000 | 330.2 | 0.500 | 12.7 | 3.396 | 86.25 | 100 |
| RKW-12-9-BK-C | Yes | 9.000 | 228.6 | 0.750 | 19.1 | 2.140 | 54.40 | 100 |
| RKW-12-13-BK-C | Yes | 13.000 | 330.2 | 0.750 | 19.1 | 3.396 | 86.25 | 100 |
| RKW-12-15-BK-C | No | 15.000 | 381.0 | 0.750 | 19.1 | 3.918 | 99.52 | 100 |
| RKW-12-18-BK-C | No | 18.000 | 457.2 | 0.750 | 19.1 | 4.716 | 119.78 | 100 |
| RKW-12-24-BK-C | No | 24.000 | 609.6 | 0.750 | 19.1 | 6.288 | 159.71 | 100 |



HOOK & LOOP CABLE TIES & CINCH STRAPS

RKWPR

Plenum Rated Hook and Loop Cable Tie



Specifications:

- Material / Color
Hook: Black UL94 V-2 Polypropylene
Loop: Maroon UL94 V-2 Nylon



Features:

- Meets UL94 V-2 requirements, UL #E143339
- Accepted as wire positioning device (16SA) in air handling spaces in accordance with section 300-22 paragraph (C) and (D) of the National Electrical Code
- Features: VELCRO® brand hook and loop material

| Item No. | Screw Mount | L | | W | | A | | Bulk Pack Qty. |
|-------------|-------------|--------|-------|-------|------|-------|------|----------------|
| | | In | mm | In | mm | In | mm | |
| RKWPR-6-6 | No | 6.000 | 152.4 | 1.000 | 25.4 | 0.500 | 12.7 | 10 |
| RKWPR-8-6 | No | 6.000 | 152.4 | .750 | 19.1 | 0.380 | 9.5 | 10 |
| RKWPR-8-8 | Yes | 8.000 | 203.2 | 1.000 | 25.4 | 0.500 | 12.7 | 10 |
| RKWPR-8-9 | Yes | 9.000 | 228.6 | 1.000 | 25.4 | 0.500 | 12.7 | 10 |
| RKWPR-8-11 | No | 11.000 | 279.4 | 1.000 | 25.4 | 0.500 | 12.7 | 10 |
| RKWPR-8-12 | Yes | 12.000 | 304.8 | 1.000 | 25.4 | 0.500 | 12.7 | 10 |
| RKWPR-8-13 | Yes | 13.000 | 330.2 | 1.000 | 25.4 | 0.500 | 12.7 | 10 |
| RKWPR-12-9 | Yes | 9.000 | 228.6 | 1.500 | 38.1 | 0.750 | 19.1 | 10 |
| RKWPR-12-13 | Yes | 13.000 | 330.2 | 1.500 | 38.1 | 0.750 | 19.1 | 10 |

RKWID

Hook and Loop Marker Tie



Specifications:

- Material: Hook: LDPE
Loop: Nylon Knit
- Color: Black



Features:

- This product features VELCRO® brand hook and loop material
- Writing surface on tie can be used to identify bundle with a felt tip pen or marker

| Item No. | Screw Mount | L Length | | W | | A | | Bulk Pack Qty. |
|--------------|-------------|----------|-------|-------|------|-------|------|----------------|
| | | In | mm | In | mm | In | mm | |
| RKWID-8-8-BK | Yes | 8.000 | 203.2 | 1.000 | 25.4 | 0.500 | 12.7 | 10 |

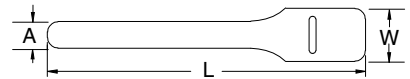
RKWE

Economy Hook and Loop Cable Tie



Specifications:

- Material: Hook: LDPE
Loop: Nylon Knit
- Color: See Table



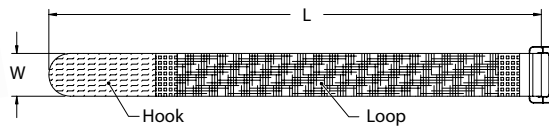
Features:

- Featuring VELCRO® brand hook and loop material
- Similar in function and purpose to the RKW, these economy ties are made from a lower-profile, economical material

| Item No. | L | | W | | A | | Bulk Pack Qty. |
|---------------|--------|-------|-------|------|-------|------|----------------|
| | In | mm | In | mm | In | mm | |
| RKWE-6-6-BK | 6.000 | 152.4 | 0.750 | 19.1 | 0.380 | 9.5 | 10 |
| RKWE-8-6-BK | 6.000 | 152.4 | 1.000 | 25.4 | 0.500 | 12.7 | 10 |
| RKWE-8-8-BK | 8.000 | 203.2 | 1.000 | 25.4 | 0.500 | 12.7 | 10 |
| RKWE-8-11-BK | 11.000 | 279.4 | 1.000 | 25.4 | 0.500 | 12.7 | 10 |
| RKWE-8-12-BK | 12.000 | 304.8 | 1.000 | 25.4 | 0.500 | 12.7 | 10 |
| RKWE-12-15-BK | 12.000 | 304.8 | 1.500 | 38.1 | 0.750 | 19.1 | 10 |

RKWDM

Hook and Loop Cinch Strap with Metal Buckle



Specifications:

- Material: Nylon Woven Hook and Loop
Buckle: Metal
- Color: See Table

Features:

- Metal buckle for heavy duty industrial applications

| Item No. | L Length | | W | | Approximate Bundle Ø with Hook Fully Engaged | | Bulk Pack Qty. |
|----------------|----------|-------|-------|------|--|-------|----------------|
| | In | mm | In | mm | In | mm | |
| RKWDM-16-15-BK | 15.000 | 381.0 | 1.000 | 25.4 | 3.750 | 95.0 | 10 |
| RKWDM-16-20-BK | 20.000 | 508.0 | 1.000 | 25.4 | 5.500 | 140.0 | 10 |
| RKWDM-16-22-BK | 22.000 | 559.0 | 1.000 | 25.4 | 5.938 | 151.0 | 10 |
| RKWDM-16-24-BK | 24.000 | 610.0 | 1.000 | 25.4 | 6.625 | 168.0 | 10 |
| RKWDM-32-15-BK | 15.000 | 381.0 | 2.000 | 51.0 | 3.750 | 95.0 | 10 |
| RKWDM-32-20-BK | 20.000 | 508.0 | 2.000 | 51.0 | 5.500 | 140.0 | 10 |
| RKWDM-32-22-BK | 22.000 | 559.0 | 2.000 | 51.0 | 6.000 | 152.0 | 10 |
| RKWDM-32-24-BK | 24.000 | 610.0 | 2.000 | 51.0 | 6.625 | 168 | 10 |



RKWD
Hook & Loop Cinch Strap

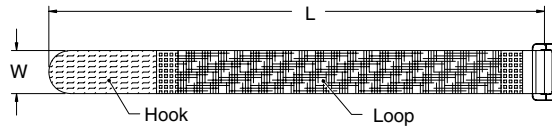


Specifications:

- Material: Nylon Woven Hook and Loop
- Buckle: Nylon
- Color: See Table

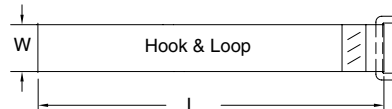
Features:

- Heavy duty hook and loop
- Buckle on the tie acts as a pulley providing leverage to pull the strap as tightly as needed
- The strap section goes through the buckle, the remainder of the material gets pulled around the buckle and can then be attached to the same side of the material
- The non-metallic buckle is safe to use around electrical and magnetic applications



| Item No. | | L Length | | W | | Approximate Bundle Ø with Hook Fully Engaged | | Bulk Pack Qty. |
|---------------|---------------|----------|-----|-------|------|--|-----|----------------|
| Black | Orange | In | mm | In | mm | In | mm | |
| RKWD-12-12-BK | — | 12.000 | 305 | 0.750 | 19.1 | 2.875 | 73 | 10 |
| RKWD-12-18-BK | — | 18.000 | 457 | 0.750 | 19.1 | 4.750 | 121 | 10 |
| RKWD-16-9-BK | RKWD-16-9-OR | 9.000 | 229 | 1.000 | 25.4 | 1.875 | 48 | 10 |
| RKWD-16-12-BK | RKWD-16-12-OR | 12.000 | 305 | 1.000 | 25.4 | 2.875 | 73 | 10 |
| RKWD-16-15-BK | RKWD-16-15-OR | 15.000 | 381 | 1.000 | 25.4 | 3.750 | 95 | 10 |
| RKWD-16-20-BK | RKWD-16-20-OR | 20.000 | 508 | 1.000 | 25.4 | 5.500 | 140 | 10 |
| RKWD-16-24-BK | RKWD-16-24-OR | 24.000 | 609 | 1.000 | 25.4 | 6.625 | 168 | 10 |

RKWDA
Extra Long / Cut to Length Cinch Strap



Specifications:

- Material: Hook and Loop: Nylon Woven
- Buckle: Nylon
- Color: Black

Features:

- Unique cut-to-length design eliminates the need to predetermine exact strap length
- Adheres to itself along its entire length

| Item No. | L | | W | | Bundle Ø with Hook Fully Engaged | | Bulk Pack Qty. |
|----------------|--------|--------|-------|------|----------------------------------|-------|----------------|
| | In | mm | In | mm | In | mm | |
| RKWDA-16-20BK | 20.000 | 508.0 | 1.000 | 25.4 | 5.500 | 140.0 | 10 |
| RKWDA-16-24BK | 24.000 | 609.0 | 1.000 | 25.4 | 6.325 | 168.0 | 10 |
| RKWDA-16-36-BK | 36.000 | 914.0 | 1.000 | 25.4 | 10.500 | 267.0 | 10 |
| RKWDA-16-48-BK | 48.000 | 1219.0 | 1.000 | 25.4 | 14.375 | 365.0 | 10 |
| RKWDA-32-20-BK | 20.000 | 508.0 | 2.000 | 50.8 | 5.500 | 140.0 | 10 |
| RKWDA-32-24-BK | 24.000 | 610.0 | 2.000 | 50.8 | 6.628 | 169.0 | 10 |
| RKWDA-32-36-BK | 36.000 | 914.0 | 2.000 | 50.8 | 10.500 | 267.0 | 10 |
| RKWDA-32-48-BK | 48.000 | 1219.0 | 2.000 | 50.8 | 14.375 | 365.0 | 10 |

RKWDG / RKWDE
Hook & Loop Cinch Strap with Grommet

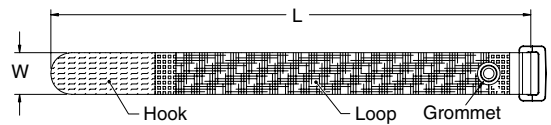


Figure 1

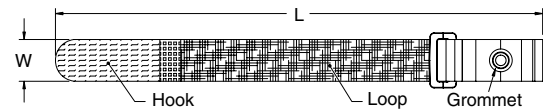


Figure 2

Specifications:

- Material: Nylon Woven Hook and Loop
- Buckle: Nylon
- Grommet: Brass
- Color: See Table

Features:

- Grommet for mounting to walls, racks and mobile carts to organize and neatly route cables
- RKWDG Centers bundle over mounting point
- RKWDE offsets bundle from mounting point
- Takes the stress off horizontal cable runs

| Item No. | | Figure | L Length | | W | | Approximate Bundle Ø with Hook Fully Engaged | | Grommet Ø Ref. | | Bulk Pack Qty. |
|----------------|----------------|--------|----------|-----|-------|------|--|-----|----------------|-----|----------------|
| Black | Orange | | In | mm | In | mm | In | mm | In | mm | |
| RKWDG-16-9-BK | RKWDG-16-9-OR | 1 | 9.000 | 229 | 1.000 | 25.4 | 1.875 | 48 | 0.250 | 6.4 | 10 |
| RKWDE-16-9-BK | RKWDE-16-9-OR | 2 | 9.000 | 229 | 1.000 | 25.4 | 1.875 | 48 | 0.250 | 6.4 | 10 |
| RKWDG-12-12-BK | — | 1 | 12.000 | 305 | 0.750 | 19.1 | 2.875 | 73 | 0.250 | 6.4 | 10 |
| RKWDE-12-12-BK | — | 2 | 10.500 | 267 | 0.750 | 19.1 | 2.375 | 60 | 0.250 | 6.4 | 10 |
| RKWDG-16-12-BK | RKWDG-16-12-OR | 1 | 12.000 | 305 | 1.000 | 25.4 | 2.875 | 73 | 0.250 | 6.4 | 10 |
| RKWDE-16-12-BK | RKWDE-16-12-OR | 2 | 12.000 | 305 | 1.000 | 25.4 | 2.875 | 73 | 0.250 | 6.4 | 10 |
| RKWDG-16-15-BK | RKWDG-16-15-OR | 1 | 15.000 | 381 | 1.000 | 25.4 | 3.750 | 95 | 0.250 | 6.4 | 10 |
| RKWDE-16-15-BK | RKWDE-16-15-OR | 2 | 15.000 | 381 | 1.000 | 25.4 | 3.750 | 95 | 0.250 | 6.4 | 10 |
| RKWDG-12-18-BK | — | 1 | 18.000 | 457 | 0.750 | 19.1 | 4.750 | 121 | 0.250 | 6.4 | 10 |
| RKWDE-12-18-BK | — | 2 | 16.500 | 419 | 0.750 | 19.1 | 4.250 | 108 | 0.250 | 6.4 | 10 |
| RKWDG-16-20-BK | RKWDG-16-20-OR | 1 | 20.000 | 508 | 1.000 | 25.4 | 5.500 | 140 | 0.250 | 6.4 | 10 |
| RKWDE-16-20-BK | RKWDE-16-20-OR | 2 | 20.000 | 508 | 1.000 | 25.4 | 5.500 | 140 | 0.250 | 6.4 | 10 |
| RKWDG-16-24-BK | RKWDG-16-24-OR | 1 | 24.000 | 609 | 1.000 | 25.4 | 6.625 | 168 | 0.250 | 6.4 | 10 |
| RKWDE-16-24-BK | RKWDE-16-24-OR | 2 | 24.000 | 609 | 1.000 | 25.4 | 6.625 | 168 | 0.250 | 6.4 | 10 |



HOOK & LOOP ROLLS

RKWR Hook & Loop Roll

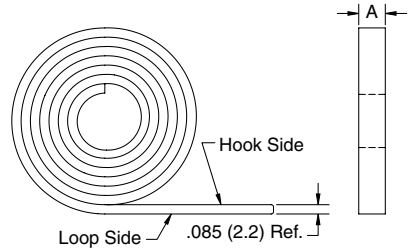


Specifications:

- Material: Hook: LDPE
Loop: Nylon Knit, RMS-251
- Color: See Table

Features:

- This product features VELCRO® brand hook & loop material
- User can cut to desired length
- Available in 2 lengths; 5 yards and 25 yards



| Item No. | | | | | | | | A | | Roll Length |
|------------|------------|------------|------------|------------|------------|-----------|------------|-------|------|-------------|
| Black | Blue | Green | Grey | Orange | Red | White | Yellow | In | mm | |
| RKWR-3-BK | RKWR-3-BL | RKWR-3-GN | RKWR-3-GY | RKWR-3-OR | RKWR-3-RD | RKWR-3-W | RKWR-3-YL | 0.500 | 12.7 | 5 Yards |
| RKWR-1-BK | RKWR-1-BL | RKWR-1-GN | RKWR-1-GY | RKWR-1-OR | RKWR-1-RD | RKWR-1-W | RKWR-1-YL | 0.750 | 19.1 | 5 Yards |
| RKWR-2-BK | RKWR-2-BL | RKWR-2-GN | RKWR-2-GY | RKWR-2-OR | RKWR-2-RD | RKWR-2-W | RKWR-2-YL | 1.000 | 25.4 | 5 Yards |
| RKWR-3L-BK | RKWR-3L-BL | RKWR-3L-GN | RKWR-3L-GY | RKWR-3L-OR | RKWR-3L-RD | RKWR-3L-W | RKWR-3L-YL | 0.500 | 12.7 | 25 Yards |
| RKWR-1L-BK | RKWR-1L-BL | RKWR-1L-GN | RKWR-1L-GY | RKWR-1L-OR | RKWR-1L-RD | RKWR-1L-W | RKWR-1L-YL | 0.750 | 19.1 | 25 Yards |
| RKWR-2L-BK | RKWR-2L-BL | RKWR-2L-GN | RKWR-2L-GY | RKWR-2L-OR | RKWR-2L-RD | RKWR-2L-W | RKWR-2L-YL | 1.000 | 25.4 | 25 Yards |

RKWR Economy Hook & Loop Roll

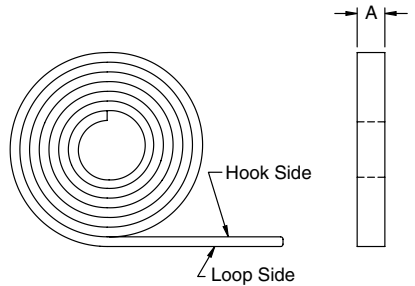


Specifications:

- Material: Hook: LDPE
Loop: Nylon Knit
- Color: Black

Features:

- This product features VELCRO® brand hook & loop material
- Similar in function and purpose to the RKWR series of rolls, these economy rolls are made from a lower-profile, economical material
- User can cut to desired length



| Item No. | A | | Roll Length |
|------------|-------|------|-------------|
| | In | mm | |
| RKWR-3L-BK | 0.500 | 12.7 | 25 Yards |
| RKWR-1L-BK | 0.750 | 19.1 | 25 Yards |

RKWRPR Plenum Rated Hook & Loop Roll

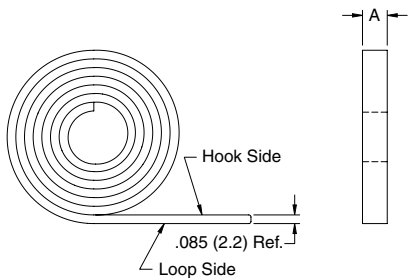


Specifications:

- Material: Hook: UL94 V-2 Black Polypropylene
Loop: UL94 V-2 Maroon Nylon
- Color: Maroon

Features:

- This product features VELCRO® brand hook & loop material
- Meets UL94 V-2 requirements. UL E143339
- Accepted as a wire positioning device (16SA) in air handling spaces in accordance with section 300-22 paragraph (C) and (D) of the National Electrical Code
- User can cut to desired length



| Item No. | A | | Roll Length |
|-----------|-------|------|-------------|
| | In | mm | |
| RKWRPR-3 | 0.500 | 12.7 | 5 Yards |
| RKWRPR-1 | 0.750 | 19.1 | 5 Yards |
| RKWRPR-2 | 1.000 | 25.4 | 5 Yards |
| RKWRPR-3L | 0.500 | 12.7 | 25 Yards |
| RKWRPR-1L | 0.750 | 19.1 | 25 Yards |
| RKWRPR-2L | 1.000 | 25.4 | 25 Yards |



HOSE PROTECTION & BUNDLING

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MFTH
Mini Cable Tie Mount with Adhesive Base

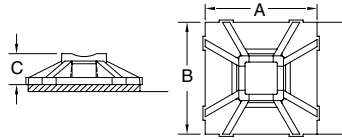


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Cable ties can be inserted from all four sides
- Acrylic adhesive is a general purpose adhesive and gains strength with dwell time
- Rubber adhesive develops its strength extremely fast



| Item No. | | Used with Cable Ties | Approval | Adhesive | A | | B | | C | |
|-----------------|-----------------|----------------------|----------|----------|-------|------|-------|------|-------|-----|
| 1000 / Bag | 100 / Bag | | | | In | mm | In | mm | In | mm |
| MFTH-2-01A-RT-M | MFTH-2-01A-RT-C | 18 lbs | | Acrylic | 0.500 | 12.7 | 0.500 | 12.7 | 0.140 | 3.5 |
| MFTH-2-01A1-M | MFTH-2-01A1-C | 18 lbs | | Rubber | 0.500 | 12.7 | 0.500 | 12.7 | 0.140 | 3.5 |

FTH-5 / FTH-7
Four Way Cable Tie Mount

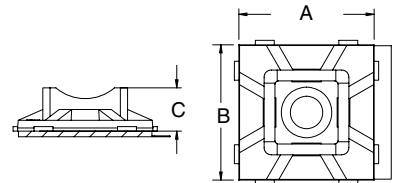


Specifications:

- Material: UL94 V-2 Nylon 6/6 (Black is UV stabilized)
- Color: See Chart

Features:

- Cable ties can be inserted from all four sides
- May be secured with screws or adhesive
- Rubber adhesive develops its strength extremely fast
- Acrylic adhesive is a general purpose adhesive and gains strength with dwell time



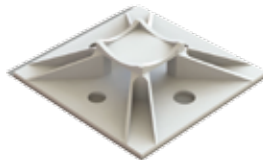
3/4" x 3/4"

| Item No. Natural | | Item No. Black | | Approval | Used with Cable Ties | Adhesive | Recommended Mounting Screw | A | | B | | C | |
|------------------|--------------|-----------------|-----------------|----------|----------------------|-------------|----------------------------|-------|------|-------|------|-------|-----|
| 1000 / Bag | 100 / Bag | 1000 / Bag | 100 / Bag | | | | | In | mm | In | mm | In | mm |
| FTH-5A-RT-M | FTH-5A-RT-C | FTH-5A-RT-UVB-M | FTH-5A-RT-UVB-C | | 18 & 40 lbs | Acrylic | #6 and M3.5 Flat Head | 0.750 | 19.1 | 0.750 | 19.1 | 0.240 | 6.1 |
| FTH-5A1-RT-M | FTH-5A1-RT-C | — | — | | 18 & 40 lbs | Rubber | #6 and M3.5 Flat Head | 0.750 | 19.1 | 0.750 | 19.1 | 0.240 | 6.1 |
| FTH-5-01-M | FTH-5-01-C | FTH-5-UVB-M | FTH-5-UVB-C | | 18 & 40 lbs | Screw Mount | #6 and M3.5 Flat Head | 0.750 | 19.1 | 0.750 | 19.1 | 0.240 | 6.1 |

1" x 1"

| Item No. Natural | | Item No. Black | | Used with Cable Ties | Approval | Adhesive | Recommended Mounting Screw | A | | B | | C | |
|------------------|--------------|-----------------|-----------------|----------------------|----------|-------------|----------------------------|-------|------|-------|------|-------|-----|
| 1000 / Bag | 100 / Bag | 1000 / Bag | 100 / Bag | | | | | In | mm | In | mm | In | mm |
| FTH-7A-RT-M | FTH-7A-RT-C | FTH-7A-RT-UVB-M | FTH-7A-RT-UVB-C | 50 lbs | | Acrylic | #8 and M4 Flat Head | 1.000 | 25.4 | 1.000 | 25.4 | 0.280 | 7.1 |
| FTH-7A1-RT-M | FTH-7A1-RT-C | — | — | 50 lbs | | Rubber | #8 and M4 Flat Head | 1.000 | 25.4 | 1.000 | 25.4 | 0.280 | 7.1 |
| FTH-7-01-M | FTH-7-01-C | FTH-7-UVB-M | FTH-7-UVB-C | 50 lbs | | Screw Mount | #8 and M4 Flat Head | 1.000 | 25.4 | 1.000 | 25.4 | 0.280 | 7.1 |

FTH-8 / FTH-10
Four Way Cable Tie Mount

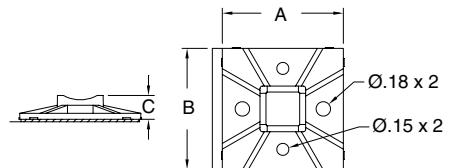


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Cable ties can be inserted from all four sides
- May be secured with screws or adhesive
- Acrylic adhesive is a general purpose adhesive and gains strength with dwell time
- Low profile for tight spaces



1-1/2" x 1-1/2"

| Item No. | | Used with Cable Ties | Approval | Adhesive | Recommended Mounting Screw | A | | B | | C | |
|-------------|-------------|----------------------|----------|----------|----------------------------|-------|------|-------|------|-------|-----|
| 1000 / Bag | 100 / Bag | | | | | In | mm | In | mm | In | mm |
| FTH-8A-RT-M | FTH-8A-RT-C | 50 & 120 lbs | | Acrylic | 2 x #6, #8 or M4 | 1.500 | 38.1 | 1.500 | 38.1 | 0.300 | 7.6 |

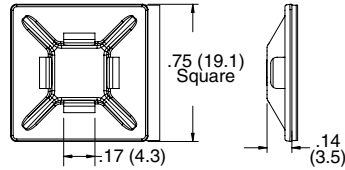
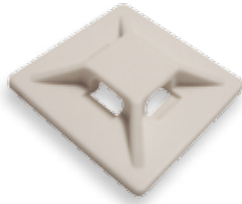
2" x 2"

| Item No. | | Used with Cable Ties | Approval | Adhesive | Recommended Mounting Screw | A | | B | | C | |
|--------------|--------------|----------------------|----------|----------|----------------------------|-------|------|------|------|-------|-----|
| 1000 / Bag | 100 / Bag | | | | | In | mm | In | mm | In | mm |
| FTH-10A-RT-M | FTH-10A-RT-C | 50 & 120 lbs | | Acrylic | 2 x #6, #8 or M4 | 2.000 | 50.8 | 2.00 | 50.8 | 0.300 | 7.6 |



CABLE TIE MOUNTS

FTH-40 Low Profile Cable Tie Mount with Adhesive



Specifications:

- Material: UL94 HB ABS
- Color: White

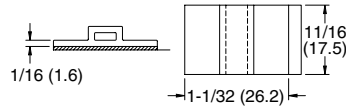
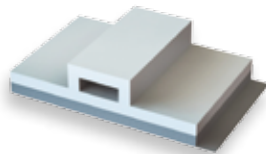
Features:

- Cable ties can be inserted from all four sides
- Acrylic adhesive is a general purpose adhesive and gains strength with dwell time
- Rubber adhesive develops its strength extremely fast
- Low profile for tight spaces

3/4" x 3/4"

| Part Number | Used with Cable Ties | Adhesive | Bulk Pack Qty. |
|-------------|----------------------|----------|----------------|
| FTH-40 | 18 & 40 lbs | None | 1000 |
| FTH-40A-RT | 18 & 40 lbs | Acrylic | 1000 |
| FTH-40A1-RT | 18 & 40 lbs | Rubber | 1000 |

FTH-2 Cable Tie Mount on Adhesive Base



Specifications:

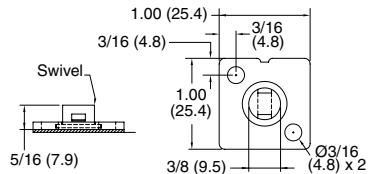
- Material: UL94 V-1 PPE/PS
- Color: White

Features:

- Easily applied

| Part Number | Used with Cable Ties | Approval | Bulk Pack Qty. |
|-------------|----------------------|----------|----------------|
| FTH-2A-RT-C | 18 & 50 lbs | | 100 |
| FTH-2A-RT-M | 18 & 50 lbs | | 1000 |

FTH-4 Cable Tie Mount with Swivel



Specifications:

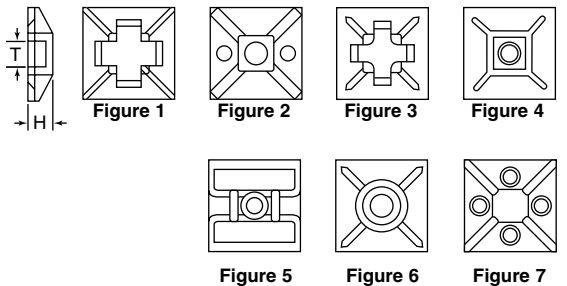
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Unique swivel head allows 360° rotation of the mounted bundle

| Part Number | Used with Cable Ties | Approval | Recommended Mounting Screw | Bulk Pack Qty. |
|-------------|----------------------|----------|----------------------------|----------------|
| FTH-4A-RT-M | 18 & 40 lbs | | #8 or M4 | 1000 |

TMA Cable Tie Mount



Specifications:

- Material: UL 94 V-2 Nylon 6/6
- Color: Natural

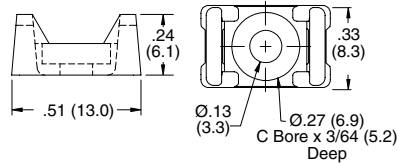
Features:

- Supplies lightweight support to wire bundles with adhesive backing
- Screw mount option available on most versions for added support of heavy bundles (use #4/#5 for 0.126 hole and #10 for 0.197 hole)
- Apply to clean, smooth, grease-free surface

| Item No. | Figure | Length | | Width | | Height | | Mounting Hole Ø | | Mounting Directions | Slot Width T | | Use With Cable Tie Classification | Bulk Pack Qty. |
|----------|--------|--------|-------|-------|-------|--------|------|-----------------|------|---------------------|--------------|-------|-----------------------------------|----------------|
| | | In | mm | In | mm | In | mm | In | mm | | In | mm | | |
| TMA001A | 1 | 0.500 | 12.50 | 0.492 | 12.50 | 0.126 | 3.20 | — | — | 4 Way | 0.126 | 3.20 | Miniature | 100 |
| TMA002A | 2 | 0.750 | 19.00 | 0.748 | 19.00 | 0.154 | 3.90 | 0.126 | 3.20 | 4 Way | 0.177 | 4.50 | Miniature, Intermediate | 100 |
| TMA003A | 3 | 0.827 | 21.00 | 0.827 | 21.00 | 0.138 | 3.50 | — | — | 4 Way | 0.185 | 4.70 | Miniature, Intermediate | 100 |
| TMA004A | 4 | 1.102 | 28.00 | 1.102 | 28.00 | 0.157 | 4.00 | 0.197 | 5.00 | 4 Way | 0.197 | 5.00 | Miniature, Intermediate, Standard | 100 |
| TMA005A | 5 | 1.102 | 28.00 | 1.102 | 28.00 | 0.157 | 4.00 | 0.197 | 5.00 | 2 Way | 0.197 | 5.00 | Miniature, Intermediate, Standard | 100 |
| TMA006A | 6 | 0.709 | 18.00 | 0.709 | 18.00 | 0.177 | 4.50 | 0.197 | 5.00 | 4 Way | 0.177 | 4.50 | Miniature, Intermediate | 100 |
| TMA008A | 4 | 0.990 | 25.80 | 1.016 | 25.80 | 0.240 | 6.10 | — | — | 4 Way | 0.315 | 8.00 | Standard, 120 lbs. Heavy Duty | 100 |
| TMA010A | 6 | 1.009 | 26.30 | 1.035 | 26.30 | 0.232 | 5.90 | 0.197 | 5.00 | 4 Way | 0.220 | 5.60 | Intermediate, Standard | 100 |
| TMA011A | 7 | 1.458 | 38.00 | 1.496 | 38.00 | 0.295 | 7.50 | 0.197 | 5.00 | 4 Way | 0.394 | 10.00 | Standard, Heavy Duty | 100 |



FTH-28RS
Rivet / Screw Mount Cable Tie Mount



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Mounts with a screw or snap rivet (see rivet chart)
- Cradle design provides stability for the bundle

| Mounting Rivets for FTH-28RS | | |
|------------------------------|-----------|--------------------|
| Panel Thickness | | Use Rivet Item No. |
| In | mm | |
| Up to 0.034 | Up to 0.9 | SR-3035 |
| 0.034 - 0.073 | Up to 0.9 | SR-3045 |
| 0.073 - 0.113 | 1.9 - 2.9 | SR-3055 |
| 0.113 - 0.152 | 2.9 - 3.9 | SR-3065 |
| 0.152 - 0.191 | 3.9 - 4.9 | SR-3075 |
| 0.172 - 0.211 | 4.4 - 5.4 | SR-3080 |
| 0.211 - 0.250 | 5.4 - 6.4 | SR-3090 |
| 0.250 - 0.290 | 6.4 - 7.4 | SR-3100 |

| Item No. | Used with Cable Ties | Recommended Mounting Screw | Pack Qty. |
|-------------|----------------------|-----------------------------------|-----------|
| FTH-28RS-01 | 18 & 40 lbs | #4, M3 Screw, SR-30XX (See Table) | 1000 |

FTH-13 / FTH-14
Rivet / Screw Mount Cable Tie Mount

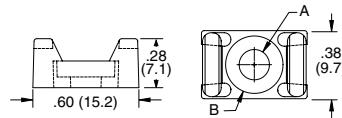


Figure 1

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Mounts with screw or snap rivet (see rivet table)
- Cradle design provides stability for the bundle

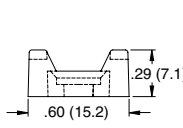


Figure 2

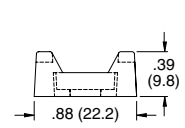


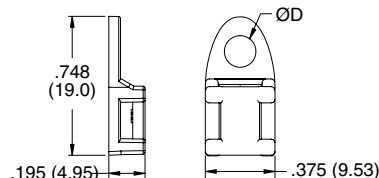
Figure 3

| Item No. | | Approval | Figure | Used with Cable Ties | A | | B | | Mounting Method | Pack Qty. |
|--------------|--------------|----------|--------|----------------------|-------|-----|-------|------|--------------------------|-----------|
| 1000 / Bag | 100 / Bag | | | | In | mm | In | mm | | |
| FTH-13R-01-M | FTH-13R-01-C | UL | 1 | 18 - 50 lbs | 0.170 | 4.3 | 0.320 | 8.1 | #8 or M4 screw or rivet | 1000 |
| FTH-13S-01-M | FTH-13S-01-C | UL | 2 | 18 - 50 lbs | 0.170 | 4.3 | 0.320 | 8.1 | #6 or M3/#8 or M4 screw | 1000 |
| FTH-14R-01-M | FTH-14R-01-C | UL | 3 | 18 - 120 lbs | 0.210 | 5.2 | 0.380 | 9.5 | #10 or M5 screw or rivet | 1000 |
| FTH-14S-01-M | FTH-14S-01-C | UL | 3 | 18 - 120 lbs | 0.260 | 6.6 | 0.490 | 12.5 | 1/4 or M6 screw | 1000 |

| Mounting Rivets for Figure 1 | | |
|------------------------------|-----------|-----------------------|
| Panel Thickness | | Use Rivet Part Number |
| In | mm | |
| 0.018 - 0.058 | 0.5 - 1.5 | SR-4050 |
| 0.058 - 0.097 | 1.5 - 2.5 | SR-4060 |
| 0.097 - 0.137 | 2.5 - 3.5 | SR-4070 |
| 0.137 - 0.176 | 3.5 - 4.5 | SR-4080 |
| 0.215 - 0.255 | 5.5 - 6.5 | SR-4100 |

| Mounting Rivets for Figure 3 | | |
|------------------------------|-----------|-----------------------|
| Panel Thickness | | Use Rivet Part Number |
| In | mm | |
| 0.020 - 0.048 | 0.5 - 1.2 | SR-5055 |
| 0.048 - 0.087 | 1.2 - 2.2 | SR-5065 |
| 0.087 - 0.127 | 2.2 - 3.2 | SR-5075 |
| 0.127 - 0.166 | 3.2 - 4.2 | SR-5085 |
| 0.166 - 0.205 | 4.2 - 5.2 | SR-5095 |
| 0.205 - 0.245 | 5.2 - 6.2 | SR-5105 |

FTH-34 / FTH-35
Screw Mount Cable Tie Mount



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Cable ties can be inserted from all four sides
- Small size allows for use where space is limited

| Item No. | Ø Hole D | | Used with Cable Ties | Accepts Screw Size | Bulk Pack Qty. |
|-----------|----------|-----|----------------------|--------------------|----------------|
| | In | mm | | | |
| FTH-34-01 | 0.170 | 4.3 | 18 thru 50 lbs | #8 or M4 | 1000 |
| FTH-35-01 | 0.200 | 5.1 | 18 thru 50 lbs | #10 or M5 | 1000 |



CABLE TIE MOUNTS

TMS Screw In Saddle Mount

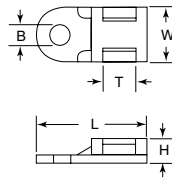


Figure 1

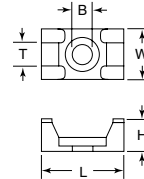


Figure 2

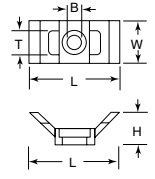


Figure 3

Specifications:

- Material: UL 94 V-2 Nylon 6/6
- Color: Natural

Features:

- Saddle design provides maximum stability to wire bundles
- To apply, simply fix mount with a screw
- RoHS compliant



| Item No. | Figure | Length | | Width | | Height | | Mounting Hole Ø B | | Screw Size | Slot Width T | | Use with Cable Tie Classification | Bulk Pack Qty. |
|----------|--------|--------|-------|-------|-------|--------|-------|-------------------|------|-------------|--------------|------|-----------------------------------|----------------|
| | | In | mm | In | mm | In | mm | In | mm | | In | mm | | |
| TMS001A | 1 | 0.748 | 19.00 | 0.374 | 9.50 | 0.197 | 5.00 | 0.145 | 3.70 | #6 / M3 | 0.197 | 5.00 | Miniature, Intermediate, Standard | 100 |
| TMS002A | 2 | 0.591 | 15.00 | 0.394 | 10.00 | 0.276 | 7.00 | 0.138 | 3.50 | #6 / M3 | 0.197 | 5.00 | Miniature, Intermediate, Standard | 100 |
| TMS003A | 2 | 0.906 | 23.00 | 0.630 | 16.00 | 0.354 | 9.00 | 0.248 | 6.30 | 1/4-20 / M6 | 0.354 | 9.00 | Standard, Heavy Duty | 100 |
| TMS005A | 3 | 1.181 | 30.00 | 0.579 | 14.70 | 0.457 | 11.60 | 0.205 | 5.20 | #10 / M5 | 0.366 | 9.30 | Standard, Heavy Duty | 100 |

FTH-1 / FTH-11 Low Profile Screw Mount Cable Tie Mount

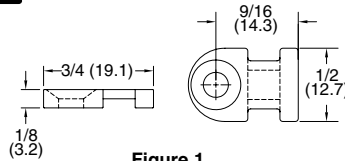
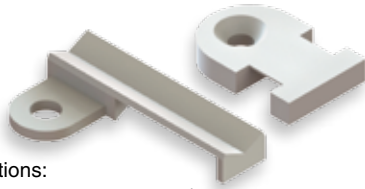


Figure 1

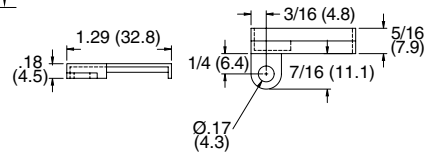


Figure 2



Specifications:

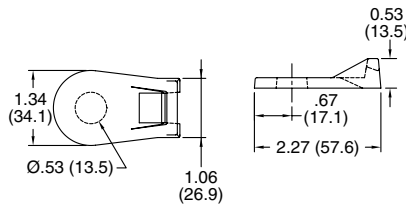
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Mounts with a #8 or M4 flat head screw
- Low profile for limited space
- FTH-11-8-01 secures bundle with multiple cable ties

| Item No. | Approval | Figure | Used with Cable Ties | Accepts Screw Size | Bulk Pack Qty. |
|-------------|----------|--------|----------------------|--------------------|----------------|
| FTH-1-01-M | | 1 | 18 - 50 lbs | #8 or M4 | 1000 |
| FTH-11-8-01 | | 2 | 18 - 50 lbs | #8 or M4 | 100 |

FTH-17 Heavy Duty Screw Mount Cable Tie Mount



Specifications:

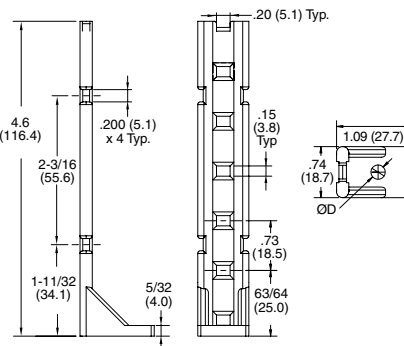
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Can be used for ties up to 250 lbs.
- Low profile for tight spaces

| Item No. | Accepts Screw Size | Used with Cable Ties | Bulk Pack Qty. |
|-------------|--------------------|----------------------|----------------|
| FTH-17-8-01 | 1/2 (M12) | All Ties | 100 |

FTH-24 Screw Mount Wire Harness Cable Tie Mount



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Allows tying up multiple bundles of cables
- Supports cable bundles above the surface

| Item No. | Mounting Method | Approval | D Ø | | Used with Cable Ties | Bulk Pack Qty. |
|-------------|-----------------|----------|-------|-----|----------------------|----------------|
| | | | In | mm | | |
| FTH-24-01 | #10 or M5 Screw | | 0.210 | 5.2 | 18 - 50 lbs | 100 |
| FTH-24-1-01 | 1/4 or M6 Screw | | 0.250 | 6.4 | 18 - 50 lbs | 100 |



FTH
Snap In Cable Tie Mounts

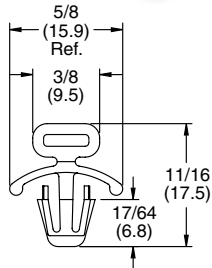
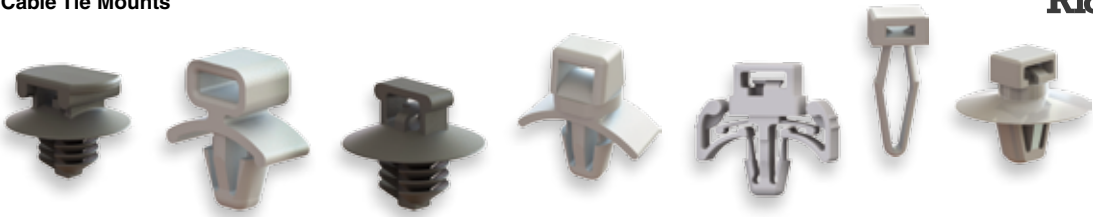


Figure 1

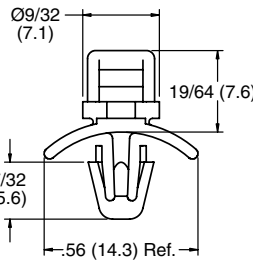


Figure 2

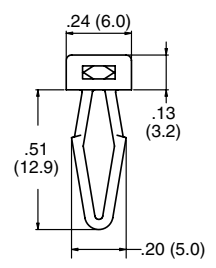


Figure 3

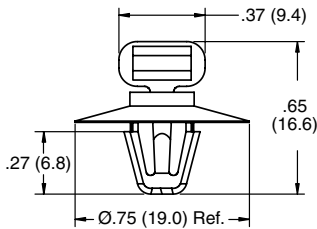


Figure 4

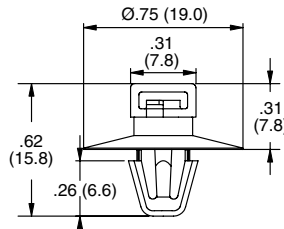


Figure 5

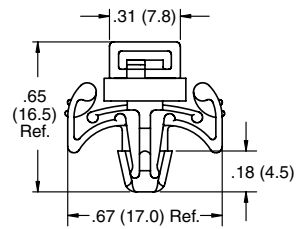


Figure 6

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: See Table

Features:

- Requires no adhesive or other mounting hardware
- Can be used in applications where back of panel is not accessible
- Figures 5,6,8, and 9 have pressure-hold feature that holds cable tie inside the tie holder
- Figures 4,5,8, and 9 have a cupped base that provides stability and also covers the mounting hole

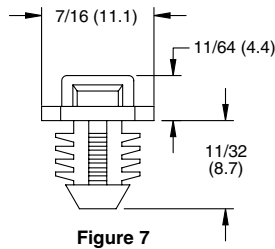


Figure 7

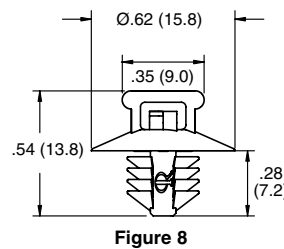


Figure 8

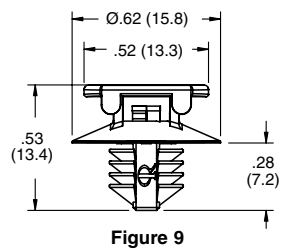
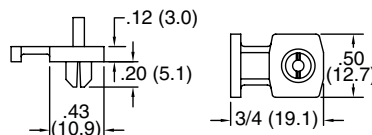


Figure 9

| Item No. | | Mounting Hole Ø | | | Panel Thickness | | | Used with Cable Ties | Bulk Pack Qty. |
|-------------|-------------|-----------------|--------|---------------|-----------------|---------------|-----------|----------------------|----------------|
| Natural | Black | Approval | Figure | In | mm | In | mm | | |
| FTH-6-01-M | — | — | 1 | 0.250 | 6.4 | 0.047 - 0.109 | 1.2 - 2.8 | 18 - 50 lbs | 1000 |
| FTH-6-01-C | — | — | 1 | 0.250 | 6.4 | 0.047 - 0.109 | 1.2 - 2.8 | 18 - 50 lbs | 100 |
| FTH-3-01-M | — | — | 2 | 0.187 | 4.8 | 0.031 - 0.078 | 0.8 - 2.0 | 18 - 50 lbs | 1000 |
| FTH-3-01-C | — | — | 2 | 0.187 | 4.8 | 0.031 - 0.078 | 0.8 - 2.0 | 18 - 50 lbs | 100 |
| FTH-39-1-01 | — | — | 3 | 0.126 | 3.2 | 0.039 - 0.177 | 1.0 - 4.5 | 18 lbs | 1000 |
| FTH-29-01 | — | — | 4 | 0.250 | 6.4 | 0.062 | 1.6 | 18 - 50 lbs | 1000 |
| FTH-33-01 | — | — | 5 | 0.250 | 6.4 | 0.062 | 1.6 | 40 - 50 lbs | 1000 |
| FTH-41-01 | — | — | 6 | 0.187 | 4.8 | 0.020 - 0.090 | 0.5 - 2.3 | 18 - 50 lbs | 1000 |
| FTH-15-01-M | — | — | 7 | 0.312 | 7.8 | 0.250 | 6.4 | 18 - 40 lbs | 1000 |
| FTH-15-01-C | — | — | 7 | 0.312 | 7.8 | 0.250 | 6.4 | 18 - 40 lbs | 100 |
| — | FTH-36-01BK | — | 8 | 0.260 - 0.280 | 6.5 - 7.0 | 0.030 - 0.120 | 0.8 - 3.0 | 40 - 50 lbs | 1000 |
| — | FTH-37-01BK | — | 9 | 0.260 - 0.280 | 6.5 - 7.0 | 0.030 - 0.120 | 0.8 - 3.0 | 40 - 50 lbs | 1000 |

FTH-22
Rivet Mount Cable Tie Mount



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Yellow

Features:

- Rivet designed into part expands to lock the tie holder in place
- Low profile design for where space is limited



| Item No. | Mounting Hole Ø | | Panel Thickness | | Used with Cable Ties | Bulk Pack Qty. |
|-----------|-----------------|-----|-----------------|-----------|----------------------|----------------|
| | In | mm | In | mm | | |
| FTH-22-01 | 0.196 | 5.0 | 0.030 - 0.125 | 0.8 - 3.2 | 18 - 50 lbs | 1000 |



CABLE TIE MOUNTS

FTH-9 Reverse Mount Cable Tie Mount

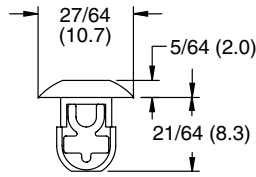


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

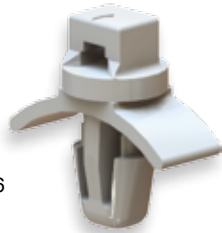
Features:

- Snap locks into place from outside of the chassis
- Low profile on the inside of the chassis
- Both sides of the panel must be accessible



| Item No. | Approval | Mounting Hole Ø | | Panel Thickness | | Accepts Cable Ties with Tensile Lbs | Bulk Pack Qty. |
|------------|----------|-----------------|-----|-----------------|-----|-------------------------------------|----------------|
| | | In | mm | In | mm | | |
| FTH-9-01-M | | 0.250 | 6.4 | 0.125 | 3.2 | 18 - 50 | 1000 |
| FTH-9-01-C | | 0.250 | 6.4 | 0.125 | 3.2 | 18 - 50 | 100 |

FTH-30 Cable Tie Mount with Cable Tie Head

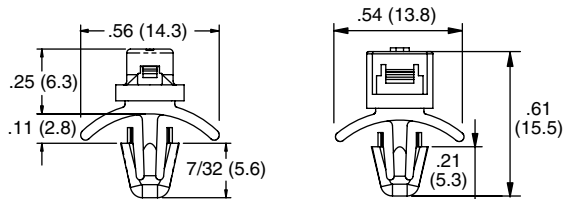


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Cable tie head contained in the tie holder
- Good for application in which a bundle is already wrapped
- Simply insert the end of the cable tie for secure hold



FTH-30-01

FTH-30-1-01



| Item No. | Mounting Hole Ø | | Panel Thickness | | Accepts Cable Ties with Tensile Lbs | Bulk Pack Qty. |
|-------------|-----------------|-----|-----------------|-----------|-------------------------------------|----------------|
| | In | mm | In | mm | | |
| FTH-30-01 | 0.187 | 4.8 | 0.031 - 0.078 | 0.8 - 2.0 | 18 | 1000 |
| FTH-30-1-01 | 0.187 | 4.8 | 0.031 - 0.078 | 0.8 - 2.0 | 50 | 1000 |

WPM Masonry Mount Cable Tie Mount

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Black

Features:

- Masonry mount
- Simply press into a pre-drilled hole

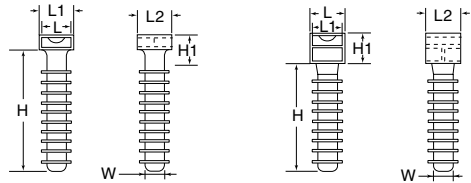


Figure 1

Figure 2

| Item No. | Figure | H | | H1 | | W | | L | | L1 | | L2 | | Use With Cable Tie Classification | Bulk Pack Qty. |
|----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-----------------------------------|----------------|
| | | In | mm | In | mm | In | mm | In | mm | In | mm | In | mm | | |
| WPM001B | 1 | 1.457 | 37.00 | 0.248 | 6.30 | 0.394 | 10.00 | 0.500 | 12.70 | 0.382 | 9.70 | 0.490 | 12.50 | Standard, Heavy Duty | 100 |
| WPM002A | 2 | 1.425 | 36.20 | 0.512 | 13.00 | 0.394 | 10.00 | 0.508 | 12.90 | 0.382 | 9.70 | 0.480 | 12.40 | Standard, Heavy Duty | 100 |

FTH-31 Edge Mount Cable Tie Mount

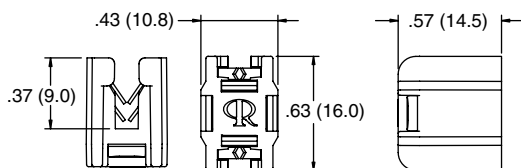


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Black

Features:

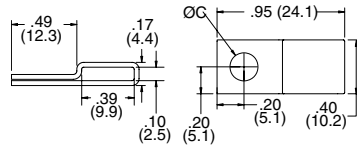
- Push the tie holder onto the edge of panel to accept a cable tie and mount a cable bundle
- Tie can be inserted from all four sides
- Retention Force:
Steel Panel .03 (0.8) thick: 5 Lbs
Steel Panel .12 (3) thick: 10 Lbs
Plastic Panel .09-.12 (2.4-3) thick: 33 Lbs



| Item No. | Panel Thickness | | Accepts Cable Ties with Tensile Lbs | Bulk Pack Qty. |
|-----------|-----------------|-----------|-------------------------------------|----------------|
| | In | mm | | |
| FTH-31-01 | 0.030 - 0.120 | 0.8 - 3.0 | 40 thru 50 | 1000 |



MTH1
Stainless Steel Tie Holder



Specifications:

- Material: 304 Stainless Steel

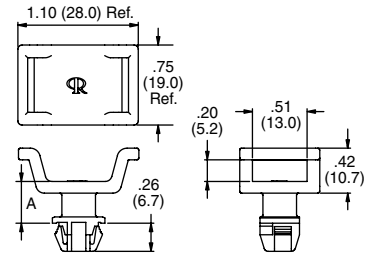
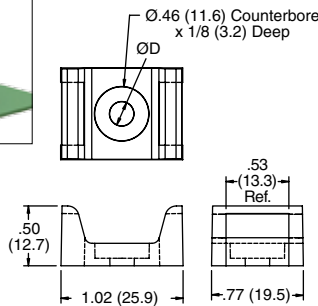
See page 39 for Stainless Steel Cable Ties.

Features:

- Low profile design
- Mounts with a screw or rivet

| Item No. | C Hole | | Recommended Mounting Screw | Bulk Pack Qty. |
|----------|--------|-----|----------------------------|----------------|
| | In | mm | | |
| MTH1-1 | 0.180 | 4.5 | #8 or M4 | 100 |
| MTH1-2 | 0.210 | 5.4 | #10 or M5 | 100 |
| MTH1-3 | 0.270 | 6.8 | 1/4 or M6 | 100 |

FTH-27
Hook & Loop Cable Tie Mount



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: See Chart

Features:

- Mounts 1/2" RKW Hook and Loop Ties

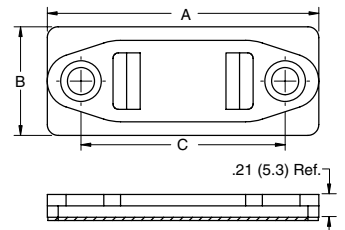
Figure 1

Figure 2

See pages 45 and 46 for Hook & Loop Cable Ties.

| Item No. | Color | Accepts Hook & Loop Up To Width | | Figure | Mounting Method | D | | A | | Panel Thickness | | Bulk Pack Qty. |
|---------------|---------|---------------------------------|----|--------|-------------------------|-------|-----|-------|------|-----------------|-----------|----------------|
| | | In | mm | | | In | mm | In | mm | In | mm | |
| FTH-27-RS-01 | Natural | 0.510 | 13 | 1 | #10, M5 or #12 Screw | 0.205 | 5.2 | — | — | — | — | 1000 |
| FTH-27-12-01 | Natural | 0.510 | 13 | 1 | #10, M5 or #12 Screw | 0.230 | 5.8 | — | — | — | — | 1000 |
| FTH-27-1-01BK | Black | 0.510 | 13 | 2 | 0.370 (9.5) Square Hole | — | — | 0.120 | 3.0 | 0.030 - 0.080 | 0.8 - 2.0 | 500 |
| FTH-27-2-01BK | Black | 0.510 | 13 | 2 | 0.370 (9.5) Square Hole | — | — | 0.390 | 10.0 | 0.030 - 0.080 | 0.8 - 2.0 | 500 |

FTH-RKW
Hook & Loop Cable Tie Mount



Specifications:

- Material: Polyethylene
- Color: Black

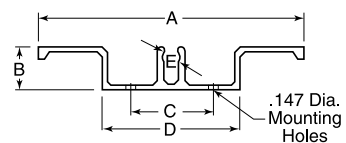
See pages 45 and 46 for Hook & Loop Cable Ties.

Features:

- Mounts with adhesive or screws

| Item No. | Accepts Hook & Loop Up To Width | | Mounting Method | A | | B | | C | | Bulk Pack Qty. |
|------------|---------------------------------|------|-----------------|-------|------|-------|------|-------|------|----------------|
| | In | mm | | In | mm | In | mm | In | mm | |
| FTH-RKW-1 | 0.500 | 12.7 | 1/4" Screw | 2.500 | 63.5 | 1.000 | 25.4 | 1.880 | 47.8 | 100 |
| FTH-RKW-1A | 0.500 | 12.7 | Adhesive | 2.500 | 63.5 | 1.000 | 25.4 | 1.880 | 47.8 | 100 |
| FTH-RKW-2 | 1.000 | 25.4 | 1/4" Screw | 3.250 | 82.6 | 1.500 | 38.1 | 2.620 | 66.5 | 100 |
| FTH-RKW-2A | 1.000 | 25.4 | Adhesive | 3.250 | 82.6 | 1.500 | 38.1 | 2.620 | 66.5 | 100 |

COR
Cord Wrap



Specifications:

- Material: Aluminum
- Color: See Chart
- Anodized finish

Features:

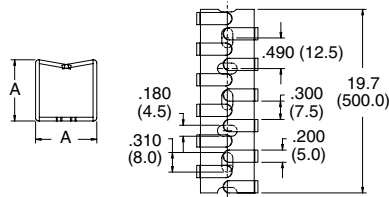
- Keeps cords neat and from being pulled

| Item No. | Color | A | | B | | C | | D | | E | | Pack Qty. |
|----------|-------|-------|-------|-------|------|-------|------|-------|------|-------|-----|-----------|
| | | In | mm | In | mm | In | mm | In | mm | In | mm | |
| COR20-2 | Black | 3.750 | 95.3 | 1.000 | 25.4 | 0.750 | 19.1 | 1.375 | 34.9 | 0.350 | 8.9 | 1 |
| COR10-1 | Clear | 4.750 | 120.7 | 0.750 | 19.1 | 1.500 | 38.1 | 2.500 | 63.5 | 0.350 | 8.9 | 1 |
| COR10-2 | Black | 4.750 | 120.7 | 0.750 | 19.1 | 1.500 | 38.1 | 2.500 | 63.5 | 0.350 | 8.9 | 1 |



DUCT

RX Flexible Duct



Specifications:

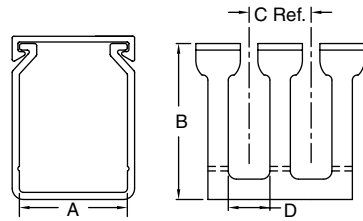
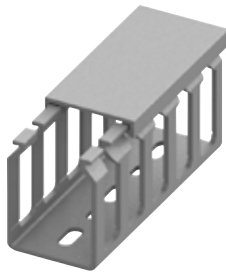
- Material: UL94 V-2 Polypropylene
- Color: Grey

Features:

- Flexible ribs allow the cables to be easily pushed and pulled into and out of channel
- Flexible base makes routing cables from the back and sides of control panels to components mounted on panel doors easy

| Item No. | | External A x A | | Internal A x A | | Length | | Pack Qty. | Bulk Pack Qty. |
|-------------|----------------|----------------|-------------|----------------|--------|--------|-------|-----------|----------------|
| Screw Mount | Adhesive Mount | In | mm | In | mm | In | mm | | |
| RX1313-0 | RX1313-4 | 0.492 x 0.492 | 12.5 x 12.5 | 0.171 | 110.0 | 19.700 | 500.0 | 1 | 112 |
| RX1616-0 | RX1616-4 | 0.630 x 0.630 | 16.0 x 16.0 | 0.287 | 185.0 | 19.700 | 500.0 | 1 | 84 |
| RX2020-0 | RX2020-4 | 0.787 x 0.787 | 20.0 x 20.0 | 0.496 | 320.0 | 19.700 | 500.0 | 1 | 112 |
| RX2525-0 | RX2525-4 | 0.984 x 0.984 | 25.0 x 25.0 | 0.775 | 500.0 | 19.700 | 500.0 | 1 | 70 |
| RX3030-0 | RX3030-4 | 1.181 x 1.181 | 30.0 x 30.0 | 1.116 | 720.0 | 19.700 | 500.0 | 1 | 50 |
| RX4040-0 | RX4040-4 | 1.575 x 1.575 | 40.0 x 40.0 | 2.046 | 1320.0 | 19.700 | 500.0 | 1 | 50 |
| RX5050-0 | RX5050-4 | 1.969 x 1.969 | 50.0 x 50.0 | 3.162 | 2040.0 | 19.700 | 500.0 | 1 | 32 |

SRWD Slotted Wire Duct

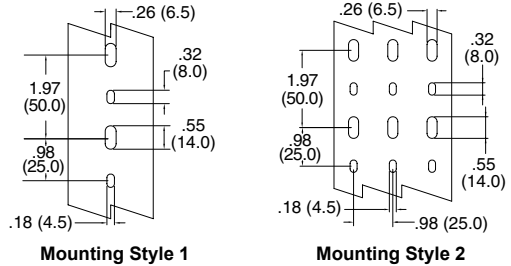


Specifications:

- Material: PVC
- Color: Grey

Features:

- Lid is supplied with the base
- Fingers are scored for easy break off
- Used for general purpose control panel wiring and to route and protect wiring in communication closets
- Holds breakout wires while providing flexibility for adding or removing wires
- Sold in 6-1/2 foot lengths

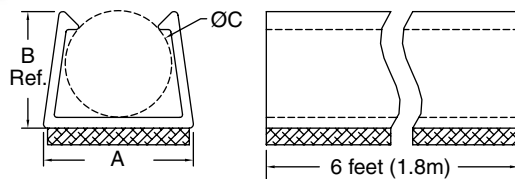
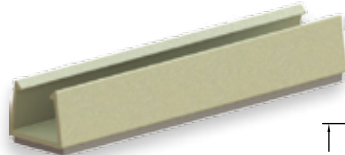


Mounting Style 1

Mounting Style 2

| Item No. | Approval | A | | B | | C | | D | | Mounting Style | Length | | Pack Qty. | Bulk Pack Qty. |
|-------------|----------|-------|-------|-------|------|-------|------|-------|-----|----------------|--------|---|-----------|----------------|
| | | In | mm | In | mm | In | mm | In | mm | | ft | m | | |
| SRWD-1015 | | 1.000 | 25.4 | 1.500 | 38.1 | 0.790 | 20.0 | 0.310 | 8.0 | 1 | 6.5 | 2 | 6.5 ft | 78 ft |
| SRWD-1515 | | 1.500 | 38.1 | 1.500 | 38.1 | 0.790 | 20.0 | 0.310 | 8.0 | 1 | 6.5 | 2 | 6.5 ft | 78 ft |
| SRWD-1520 | | 1.500 | 38.1 | 2.000 | 50.8 | 0.790 | 20.0 | 0.310 | 8.0 | 1 | 6.5 | 2 | 6.5 ft | 52 ft |
| SRWDN1-1530 | | 1.500 | 38.1 | 3.000 | 76.2 | 0.390 | 10.0 | 0.160 | 4.0 | 1 | 6.5 | 2 | 6.5 ft | 78 ft |
| SRWD-2020 | | 2.000 | 50.8 | 2.000 | 50.8 | 0.790 | 20.0 | 0.310 | 8.0 | 1 | 6.5 | 2 | 6.5 ft | 52 ft |
| SRWDN1-2030 | | 2.000 | 50.8 | 3.000 | 76.2 | 0.390 | 10.0 | 0.160 | 4.0 | 1 | 6.5 | 2 | 6.5 ft | 78 ft |
| SRWD-4020 | | 4.000 | 101.6 | 2.000 | 50.8 | 0.790 | 20.0 | 0.310 | 8.0 | 2 | 6.5 | 2 | 6.5 ft | 26 ft |

SCD Single Cable Duct



Specifications:

- Material: UL94 V-0 PVC
- Color: Tan

Features:

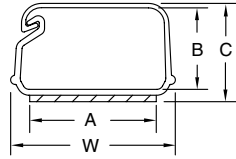
- Designed to route single coax or computer cable
- Supplied in 6 foot lengths
- Adhesive base for easy mounting



| Item No. | C Holding Ø | | A | | B Ref. | | Cable Recommendations | Length | | Pack Qty. | Bulk Pack Qty. |
|----------|---------------|-----------|-------|-----|--------|-----|-------------------------|--------|-----|-----------|----------------|
| | In | mm | In | mm | In | mm | | ft | m | | |
| SCD-1521 | 0.156 - 0.218 | 4.0 - 5.5 | 0.300 | 7.6 | 0.250 | 6.4 | RG58 | 6 | 1.8 | 6 ft | 60 ft |
| SCD-2228 | 0.218 - 0.280 | 5.5 - 7.1 | 0.360 | 9.1 | 0.290 | 6.6 | RG59, RG62, RG6, 9 Line | 6 | 1.8 | 6 ft | 60 ft |



SRL
Locking Duct on Adhesive Base



Specifications:

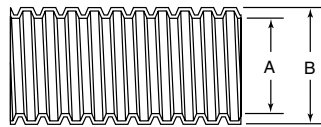
- Material: UL94 V-0 PVC
- Color: White

Features:

- Adhesive base for fast, easy installation
- When lid is shut the cables are locked into place
- Lightweight and aesthetically pleasing

| Item No. | A | | B | | W | | C Ref. | | Length | | Pack Qty. | Bulk Pack Qty. |
|--------------|-------|------|-------|------|-------|------|--------|------|--------|-----|-----------|----------------|
| | In | mm | In | mm | In | mm | In | mm | ft | m | | |
| SRL1-3-WH6A | 0.625 | 15.9 | 0.400 | 10.2 | 0.810 | 20.7 | 0.490 | 12.3 | 6 | 1.8 | 6 ft | 72 ft |
| SRL1-5-WH6A | 0.750 | 19.1 | 0.580 | 14.7 | 0.990 | 25.1 | 0.670 | 8.5 | 6 | 1.8 | 6 ft | 72 ft |
| SRL1-10-WH6A | 1.125 | 28.6 | 0.820 | 20.8 | 1.520 | 38.3 | 0.950 | 24.1 | 6 | 1.8 | 6 ft | 72 ft |

CF
PVC Coated Metal Conduit



Specifications:

- Material: PVC Coated Metal
- Color: Black

Features:

- Designed to be liquid-tight and has high tensile strength
- Good resistance to corrosion and high heat

| Item No. | Sizes | A ID Min | | B OD Min | | Roll Length | |
|----------|-------|----------|-------|----------|-------|-------------|----|
| | | In | mm | In | mm | Ft | m |
| CF3020A | 3/8 | 0.393 | 10.00 | 0.570 | 14.50 | 164 | 50 |
| CF3060A | 1/2 | 0.496 | 12.60 | 0.637 | 16.20 | 164 | 50 |
| CF3090A | 3/4 | 0.826 | 21.00 | 0.960 | 24.40 | 164 | 50 |
| CF3140A | 1 | 1.035 | 26.30 | 1.204 | 30.60 | 164 | 50 |
| CF3160A | 1-1/4 | 1.377 | 35.00 | 1.598 | 40.60 | 98 | 30 |
| CF3180A | 1-1/2 | 1.586 | 40.30 | 1.811 | 46.00 | 82 | 25 |
| CF3200A | 2 | 2.031 | 51.60 | 2.299 | 58.40 | 65 | 20 |

MCF
PVC Coated Metal Conduit



Specifications:

- Material: Zinc Alloy
- Connection Type: Set screw EMT Pipe

Features:

- Connects convoluted metal conduit to EMT pipe in order to protect wires or cables

| Item No. | EMT Pipe Sizes | Used With Metal Conduit | Mounting Hole | | Bulk Pack Qty. |
|----------|----------------|-------------------------|---------------|-------|----------------|
| | | | In | mm | |
| MCF04A | 1/2 | CF3060A | 0.767 | 19.50 | 50 |
| MCF06A | 3/4 | CF3090A | 1.027 | 26.10 | 50 |
| MCF08A | 1 | CF3140A | 1.267 | 32.20 | 30 |
| MCF10A | 1-1/4 | CF3160A | 1.523 | 38.70 | 20 |
| MCF12A | 1-1/2 | CF3180A | 2.035 | 51.70 | 10 |
| MCF14A | 2 | CF3200A | 2.515 | 63.90 | 5 |

MCF
Fittings for PVC Pipe to Metal Conduit



Specifications:

- Material: Zinc Alloy
- Connection Type: Set screw EMT Pipe

Features:

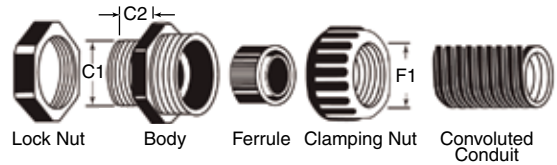
- Connects convoluted metal conduit to PVC pipe in order to protect wires or cables

| Item No. | PVC Pipe Sizes | Used With Metal Conduit | Mounting Hole | | Bulk Pack Qty. |
|----------|----------------|-------------------------|---------------|-------|----------------|
| | | | In | mm | |
| MCF106A | 3/4 | CF3090A | 1.091 | 27.70 | 50 |
| MCF108A | 1 | CF3140A | 1.350 | 34.30 | 30 |
| MCF110A | 1-1/4 | CF3160A | 1.724 | 43.80 | 20 |
| MCF112A | 1-1/2 | CF3180A | 2.035 | 51.70 | 10 |
| MCF114A | 2 | CF3200A | 2.516 | 63.90 | 5 |



FLEXIBLE CONDUIT & FITTINGS

NPT, PG & Metric Threads Metal Conduit Fittings



Specifications:

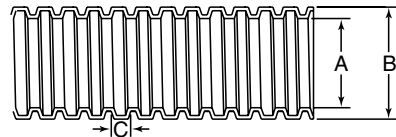
- Material: UL94 V-2 Nylon 6/6
- Color: Black
- Temp Range: -40°F to 221°F (-40°C to 105°C)

Features:

- Provides strong pull out strength and anti-vibration properties
- Threading of the conduit is not necessary during installation which eliminates the chance of cutting into the conduit and creating leak paths
- Reusable

| Item No. | Thread | Max Joint F1 | | Used With Metal Conduit | Thread OD C1 | | Panel Mounting Hole | | Thread Length C2 | | Body Min ID | | Bulk Pack Qty. |
|----------|---------|--------------|-------|-------------------------|--------------|-------|---------------------|-------------|------------------|-------|-------------|-------|----------------|
| | | In | mm | | In | mm | In | mm | In | mm | In | mm | |
| MCF202A | NPT 1/2 | 0.720 | 18.30 | CF3020A | 0.835 | 21.22 | 0.842-0.854 | 21.40-21.70 | 0.512 | 13.00 | 0.425 | 10.80 | 50 |
| MCF204A | NPT 3/4 | 0.866 | 22.00 | CF3090A | 1.046 | 26.56 | 1.055-1.066 | 26.80-27.10 | 0.591 | 15.00 | 0.563 | 14.30 | 50 |
| MCF250A | PG11 | 0.720 | 18.30 | CF3020A | 0.732 | 18.60 | 0.732-0.744 | 18.60-18.90 | 0.394 | 10.00 | 0.425 | 10.80 | 50 |
| MCF252A | PG13.5 | 0.720 | 18.30 | CF3020A | 0.803 | 20.40 | 0.803-0.814 | 20.40-20.70 | 0.394 | 10.00 | 0.425 | 10.80 | 50 |
| MCF254A | PG16 | 0.720 | 18.30 | CF3020A | 0.886 | 22.50 | 0.885-0.897 | 22.50-22.80 | 0.433 | 11.00 | 0.425 | 10.80 | 50 |
| MCF256A | PG16 | 0.866 | 22.00 | CF3060A | 0.886 | 22.50 | 0.885-0.897 | 22.50-22.80 | 0.394 | 10.00 | 0.563 | 14.30 | 50 |
| MCF258A | PG21 | 0.866 | 22.00 | CF3060A | 1.114 | 28.30 | 1.110-1.120 | 28.30-28.70 | 0.492 | 12.50 | 0.563 | 14.30 | 50 |
| MCF260A | PG21 | 1.043 | 26.50 | CF3090A | 1.114 | 28.30 | 1.110-1.120 | 28.30-28.70 | 0.472 | 12.00 | 0.709 | 18.00 | 50 |
| MCF262A | PG29 | 1.358 | 34.50 | CF3140A | 1.457 | 37.00 | 1.450-1.470 | 37.00-37.40 | 0.472 | 12.00 | 0.933 | 23.70 | 10 |
| MCF300A | M16X1.5 | 0.720 | 18.30 | CF3020A | 0.630 | 16.00 | 0.629-0.641 | 16.00-16.30 | 0.394 | 10.00 | 0.425 | 10.80 | 50 |
| MCF304A | M20X1.5 | 0.720 | 18.30 | CF3020A | 0.787 | 20.00 | 0.787-0.799 | 20.00-20.30 | 0.394 | 10.00 | 0.425 | 10.80 | 50 |
| MCF306A | M20X1.5 | 0.866 | 22.00 | CF3060A | 0.787 | 20.00 | 0.787-0.799 | 20.00-20.30 | 0.394 | 10.00 | 0.563 | 14.30 | 50 |
| MCF310A | M25X1.5 | 0.720 | 18.30 | CF3020A | 0.984 | 25.00 | 0.984-1.000 | 25.00-25.40 | 0.472 | 12.00 | 0.425 | 10.80 | 50 |
| MCF312A | M25X1.5 | 0.866 | 22.00 | CF3060A | 0.984 | 25.00 | 0.984-1.000 | 25.00-25.40 | 0.394 | 10.00 | 0.563 | 14.30 | 50 |
| MCF314A | M25X1.5 | 1.043 | 26.50 | CF3090A | 0.984 | 25.00 | 0.984-1.000 | 25.00-25.40 | 0.394 | 10.00 | 0.709 | 18.00 | 50 |
| MCF316A | M32X1.5 | 0.866 | 22.00 | CF3060A | 1.260 | 32.00 | 1.259-1.275 | 32.00-32.40 | 0.472 | 12.00 | 0.563 | 14.30 | 10 |
| MCF318A | M32X1.5 | 1.358 | 34.50 | CF3140A | 1.260 | 32.00 | 1.259-1.275 | 32.00-32.40 | 0.394 | 10.00 | 0.933 | 23.70 | 10 |

CF Unsplit Polyethylene Conduit



Specifications:

- Material: HDPE
- Color: Grey
- Temp Range: -40°F to 200°F (-40°C to 93°C)

Features:

- Wire and cable protection for electrical harnesses
- Can also be used to protect hydraulic hoses
- Flexible body allows for easy corner/elbow wiring

| Item No. | Nominal Ø | A | | B | | C | | Roll Length | |
|----------|-----------|-------|-------|-------|-------|-------|------|-------------|-----|
| | | In | mm | In | mm | In | mm | ft | m |
| CF001A | 1/4 | 0.291 | 7.390 | 0.402 | 10.21 | 0.104 | 2.64 | 984 | 300 |
| CF002A | 3/8 | 0.421 | 10.69 | 0.555 | 14.10 | 0.080 | 2.04 | 328 | 100 |
| CF003A | 3/8 | 0.421 | 10.69 | 0.630 | 16.00 | 0.130 | 3.30 | 328 | 100 |
| CF004A | 1/2 | 0.543 | 13.79 | 0.787 | 19.99 | 0.124 | 3.14 | 328 | 100 |
| CF005A | 5/8 | 0.555 | 14.10 | 0.866 | 22.00 | 0.144 | 3.66 | 328 | 100 |
| CF006A | 11/16 | 0.677 | 17.20 | 0.866 | 22.00 | 0.124 | 3.14 | 328 | 100 |
| CF007A | 3/4 | 0.720 | 18.29 | 0.984 | 24.99 | 0.162 | 4.12 | 328 | 100 |
| CF008A | 7/8 | 0.835 | 21.21 | 1.016 | 25.81 | 0.124 | 3.14 | 328 | 100 |
| CF009A | 1 | 0.957 | 24.31 | 1.260 | 32.00 | 0.142 | 3.61 | 164 | 50 |
| CF010A | 1-1/8 | 1.130 | 28.70 | 1.339 | 34.01 | 0.124 | 3.14 | 164 | 50 |
| CF011A | 1-1/4 | 1.228 | 31.19 | 1.575 | 40.01 | 0.162 | 4.12 | 164 | 50 |
| CF012A | 1-3/8 | 1.374 | 34.90 | 1.654 | 42.01 | 0.124 | 3.14 | 164 | 50 |
| CF013A | 1-1/2 | 1.575 | 40.00 | 1.890 | 48.01 | 0.124 | 3.14 | 164 | 50 |
| CF014A | 1-5/8 | 1.559 | 39.60 | 1.969 | 50.01 | 0.191 | 4.85 | 164 | 50 |

FCA Flexible Conduit Adapters



Conduit to Conduit

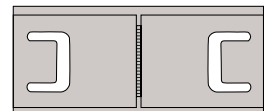


Conduit to PVC Pipe



Conduit to Conduit Connector

| Item No. | Used with Plastic Conduit | Bulk Pack Qty. |
|----------|---------------------------|----------------|
| FCA02A | CF004A | 20 |
| FCA04A | CF006A | 20 |
| FCA06A | CF008A | 20 |
| FCA08A | CF010A | 20 |



Specifications:

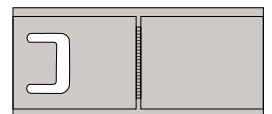
- Material: UL94 HB ABS
- Color: Grey

Features:

- FCA02A to FCA-08A can be used to connect plastic convuluted conduit
- FCA102A to FCA-108A can be used to connect plastic convuluted conduit to PVC pipe

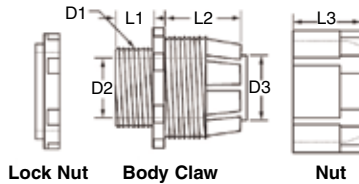
Conduit to PVC Pipe

| Item No. | Used with Plastic Conduit | Bulk Pack Qty. |
|----------|---------------------------|----------------|
| FCA102A | CF004A | 20 |
| FCA104A | CF006A | 20 |
| FCA106A | CF008A | 20 |
| FCA108A | CF010A | 20 |





FCA200
Flexible Conduit Fittings



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Grey
- Temp Range: -40°F to 221°F (-40°C to 105°C)

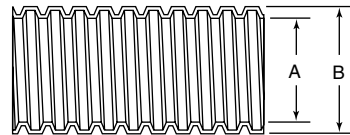
Features:

- Connects plastic convoluted conduit to control panels, machinery, and other equipment



| Item No. | Mounting Hole D1 | | Used With Plastic Conduit | D2 | | D3 | | L1 | | L2 | | L3 | | Bulk Pack Qty. |
|----------|------------------|------|---------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|----------------|
| | In | mm | | In | mm | In | mm | In | mm | In | mm | In | mm | |
| FCA200A | 0.567 | 14.4 | CF001A | 0.248 | 6.3 | 0.295 | 7.5 | 0.382 | 9.7 | 0.728 | 18.5 | 0.626 | 15.9 | 50 |
| FCA202A | 0.626 | 15.9 | CF003A | 0.433 | 11 | 0.425 | 10.8 | 0.394 | 10 | 0.705 | 17.9 | 0.618 | 15.7 | 50 |
| FCA204A | 0.630 | 16 | CF004A | 0.437 | 11.1 | 0.524 | 13.3 | 0.382 | 9.7 | 0.732 | 18.6 | 0.626 | 15.9 | 50 |
| FCA206A | 0.756 | 19.2 | CF005A | 0.591 | 15 | 0.579 | 14.7 | 0.394 | 10 | 0.697 | 17.7 | 0.630 | 16 | 50 |
| FCA208A | 0.787 | 20 | CF006A | 0.606 | 15.4 | 0.677 | 17.2 | 0.386 | 9.8 | 0.693 | 17.6 | 0.642 | 16.3 | 50 |
| FCA210A | 0.984 | 25 | CF008A | 0.744 | 18.9 | 0.780 | 19.8 | 0.449 | 11.4 | 0.929 | 23.6 | 0.811 | 20.6 | 50 |
| FCA212A | 1.228 | 31.2 | CF009A | 1.024 | 26 | 0.957 | 24.3 | 0.472 | 12 | 0.898 | 22.8 | 0.811 | 20.6 | 25 |
| FCA214A | 1.260 | 32 | CF010A | 1.055 | 26.8 | 1.126 | 28.6 | 0.445 | 11.3 | 0.917 | 23.3 | 0.815 | 20.7 | 25 |
| FCA216A | 1.476 | 37.5 | CF011A | 1.240 | 31.5 | 1.244 | 31.6 | 0.445 | 11.3 | 0.929 | 23.6 | 0.815 | 20.7 | 25 |
| FCA218A | 1.575 | 40 | CF012A | 1.287 | 32.7 | 1.370 | 34.8 | 0.453 | 11.5 | 0.917 | 23.3 | 0.819 | 20.8 | 25 |
| FCA220A | 1.732 | 44 | CF013A | 1.476 | 37.5 | 1.594 | 40.5 | 0.496 | 12.6 | 0.878 | 22.3 | 0.815 | 20.7 | 10 |
| FCA222A | 1.732 | 44 | CF014A | 1.476 | 37.5 | 1.555 | 39.5 | 0.496 | 12.6 | 0.850 | 21.6 | 0.815 | 20.7 | 10 |

CF
Unsplit Nylon Conduit



Specifications:

- Material: UL-94 HB Nylon
- Color: Black with Grey Stripe
- Temp Range: -40°F to 300°F (-40°C to 149°C)

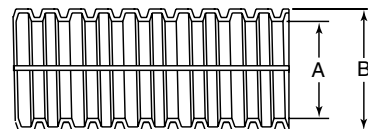
Features:

- Wire and cable protection for electrical harnesses
- Can also be used to protect hydraulic hoses
- Flexible body allows for easy corner/elbow wiring

| Item No. | Nominal Ø | A Min | | A Max | | B Min | | B Max | | Wall Thickness | | Roll Length | |
|----------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|----------------|------|-------------|-------|
| | | In | mm | In | mm | In | mm | In | mm | In | mm | Ft | m |
| CF1010A | 1/4 | 0.237 | 6.02 | 0.266 | 6.76 | 0.375 | 9.53 | 0.400 | 10.16 | 0.040 | 1.02 | 2500 | 762 |
| CF1020A | 3/8 | 0.341 | 8.66 | 0.380 | 9.65 | 0.497 | 12.62 | 0.526 | 13.36 | 0.040 | 1.02 | 1500 | 457.2 |
| CF1040A | 7/16 | 0.399 | 10.13 | 0.437 | 11.10 | 0.573 | 14.55 | 0.597 | 15.16 | 0.050 | 1.27 | 1500 | 457.2 |
| CF1060A | 1/2 | 0.473 | 12.01 | 0.516 | 13.11 | 0.664 | 16.87 | 0.700 | 17.78 | 0.050 | 1.27 | 1000 | 304.8 |
| CF1080A | 5/8 | 0.603 | 15.32 | 0.639 | 16.23 | 0.805 | 20.45 | 0.837 | 21.26 | 0.050 | 1.27 | 700 | 213.4 |
| CF1090A | 3/4 | 0.707 | 17.96 | 0.759 | 19.28 | 0.950 | 24.13 | 0.989 | 25.12 | 0.050 | 1.27 | 450 | 137.2 |
| 900081 | 7/8 | 0.848 | 21.54 | 0.898 | 22.81 | 1.107 | 28.12 | 1.151 | 29.24 | 0.050 | 1.27 | 400 | 121.9 |
| CF1140A | 1 | 1.020 | 25.91 | 1.069 | 27.16 | 1.251 | 31.78 | 1.304 | 33.13 | 0.060 | 1.52 | 250 | 76.2 |
| CF1140B* | 1 | 1.020 | 25.91 | 1.069 | 27.16 | 1.251 | 31.78 | 1.304 | 33.13 | 0.060 | 1.52 | 250 | 76.2 |
| CF1150A | 1-1/8 | 1.122 | 28.50 | 1.176 | 29.86 | 1.356 | 34.58 | 1.413 | 35.88 | 0.060 | 1.52 | 200 | 60.9 |
| 900082 | 1-1/4 | 1.199 | 30.45 | 1.257 | 31.93 | 1.446 | 36.73 | 1.500 | 38.10 | 0.060 | 1.52 | 200 | 60.9 |

* No grey stripe

CS
Split Polypropylene Conduit



Specifications:

- Material: Polypropylene
- Color: Black
- Temp Range: -40°F to 225°F (-40°C to 107°C)

Features:

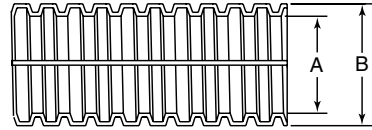
- Split design for easy installation and removal of wiring
- Wire and cable protection for electrical harnesses
- Flexible body allows for corner/elbow wiring
- Can be used to protect hydraulic hoses

| Item No. | Nominal Ø | A | | B | | Roll Length | |
|----------|-----------|-------|-------|-------|-------|-------------|-----|
| | | In | mm | In | mm | Ft | m |
| CS001A | 1/4 | 0.291 | 7.39 | 0.402 | 10.21 | 984 | 300 |
| CS002A | 7/16 | 0.421 | 10.69 | 0.630 | 16.00 | 656 | 200 |
| CS003A | 1/2 | 0.543 | 13.79 | 0.689 | 17.50 | 656 | 200 |
| CS004A | 5/8 | 0.591 | 15.01 | 0.768 | 19.51 | 328 | 100 |
| CS005A | 3/4 | 0.760 | 19.30 | 0.937 | 23.80 | 328 | 100 |
| CS006A | 7/8 | 0.835 | 21.21 | 1.016 | 25.81 | 328 | 100 |
| CS007A | 1 | 0.957 | 24.31 | 1.260 | 32.00 | 164 | 50 |
| CS008A | 1 | 0.984 | 24.99 | 1.181 | 30.00 | 164 | 50 |
| CS009A | 1-1/8 | 1.102 | 27.99 | 1.339 | 34.01 | 164 | 50 |
| CS010A | 1-1/4 | 1.228 | 31.19 | 1.575 | 40.01 | 164 | 50 |
| CS011A | 1-5/8 | 1.559 | 39.59 | 1.969 | 50.00 | 164 | 50 |



FLEXIBLE CONDUIT, FITTINGS & WRAPS

CS (Nylon) Split Nylon Conduit



Specifications:

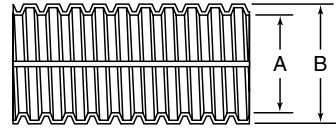
- Material: UL94 HB Nylon
- Color: Black with Gray Stripe
- Temp Range: -40°F to 300°F (-40°C to 149°C)

Features:

- Split design for easy installation and removal of wiring
- Cable protection for electrical wiring harnesses
- Flexible body allows for corner/elbow wiring
- Can be used to protect hydraulic hoses
- Split design for easy installation

| Item No. | Nominal Ø In | A Min | | A Max | | B Min | | B Max | | Wall Thickness | | Roll Length | | Pack Qty. |
|----------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|----------------|------|-------------|-------|-----------|
| | | In | mm | In | mm | In | mm | In | mm | In | mm | Ft | m | |
| CS1020A | 3/8 | 0.341 | 8.66 | 0.380 | 9.65 | 0.497 | 12.62 | 0.526 | 13.36 | 0.040 | 1.02 | 1900 | 579.1 | 1 |
| CS1040A | 7/16 | 0.399 | 10.13 | 0.437 | 11.10 | 0.573 | 14.55 | 0.597 | 15.16 | 0.050 | 1.27 | 1500 | 457.2 | 1 |
| CS1060A | 1/2 | 0.473 | 12.01 | 0.516 | 13.11 | 0.664 | 16.87 | 0.700 | 17.78 | 0.050 | 1.27 | 1100 | 335.3 | 1 |
| CS1080A | 5/8 | 0.603 | 15.32 | 0.639 | 16.23 | 0.805 | 20.45 | 0.837 | 21.26 | 0.050 | 1.27 | 800 | 243.8 | 1 |
| CS1090A | 3/4 | 0.707 | 17.96 | 0.759 | 19.28 | 0.950 | 24.13 | 0.989 | 25.12 | 0.050 | 1.27 | 550 | 164.6 | 1 |
| CS1140A | 1 | 1.020 | 25.91 | 1.069 | 27.16 | 1.251 | 31.78 | 1.304 | 33.13 | 0.006 | 1.52 | 300 | 91.4 | 1 |

CSEZ EZ Dispenser Split Nylon Conduit



Specifications:

- Material: UL94 HB Nylon
- Color: Black with Gray Stripe
- Temperature Rating: -40°F to 300°F

Features:

- Supplied in easy pull dispenser box
- Tangle free dispenses on interior reel
- Split design for easy installation and removal

| Item No. | Nominal Ø In | A Min | | A Max | | B Min | | B Max | | Wall Thickness | | Roll Length | | Pack Qty. |
|-----------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|----------------|------|-------------|-------|-----------|
| | | In | mm | In | mm | In | mm | In | mm | In | mm | Ft | m | |
| CSEZ1010A | 1/4 | 0.256 | 6.50 | 0.276 | 7.01 | 0.373 | 9.47 | 0.398 | 10.11 | .040 | 1.02 | 100 | 30.48 | 1 |
| CSEZ1030A | 3/8 | 0.368 | 9.35 | 0.398 | 10.11 | 0.494 | 12.56 | 0.525 | 13.32 | .050 | 1.27 | 100 | 30.48 | 1 |
| CSEZ1060A | 1/2 | 0.473 | 12.01 | 0.516 | 13.11 | 0.664 | 16.87 | 0.700 | 17.78 | .050 | 1.27 | 100 | 30.48 | 1 |
| CSEZ1080A | 5/8 | 0.603 | 15.32 | 0.639 | 16.23 | 0.805 | 20.45 | 0.837 | 21.26 | .050 | 1.27 | 100 | 30.48 | 1 |
| CSEZ1090A | 3/4 | 0.707 | 17.96 | 0.759 | 19.28 | 0.950 | 24.13 | 0.989 | 25.12 | .050 | 1.27 | 100 | 30.48 | 1 |
| CSEZ1140A | 1 | 1.020 | 25.91 | 1.069 | 27.16 | 1.251 | 31.78 | 1.304 | 33.13 | .060 | 1.52 | 50 | 15.24 | 1 |

SHR Slit Harness Wrap

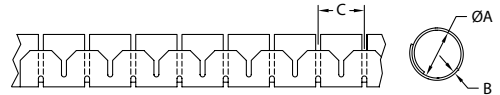


Specifications:

- Material: See Chart
- Color: Black

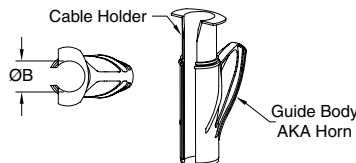
Features:

- Protects wires from wear
- Easy to install



| Item No. | Nylon 6 | LDPE | Approval | Max Bundle Range | | A | | B | | C | | Roll Length | | Installation Tool Part Number | Pack Qty. |
|-------------|------------|------------|----------|------------------|------|-------|------|-------|-----|-------|------|-------------|-----|-------------------------------|-----------|
| | | | | In | mm | In | mm | In | mm | In | mm | Ft | m | | |
| SHR-05-6V0B | SHR-05-6NB | SHR-05-PPB | | 0.240 | 6.0 | 0.200 | 5.0 | 0.032 | 0.8 | 0.390 | 10.0 | 328 | 100 | CAT-05-PP-BL | 1 |
| SHR-08-6V0B | SHR-08-6NB | SHR-08-PPB | | 0.390 | 10.0 | 0.310 | 8.0 | 0.032 | 0.8 | 0.390 | 10.0 | 328 | 100 | CAT-08-PP | 1 |
| SHR-15-6V0B | SHR-15-6NB | SHR-15-PPB | | 0.630 | 16.0 | 0.590 | 15.0 | 0.032 | 0.8 | 0.550 | 14.0 | 164 | 50 | CAT-15-PP | 1 |
| SHR-20-6V0B | SHR-20-6NB | SHR-20-PPB | | 0.900 | 23.0 | 0.790 | 20.0 | 0.035 | 0.9 | 0.670 | 17.0 | 98 | 30 | CAT-20-PP | 1 |
| SHR-25-6V0B | SHR-25-6NB | SHR-25-PPB | | 0.980 | 25.0 | 0.980 | 25.0 | 0.039 | 1.0 | 0.790 | 20.0 | 66 | 20 | CAT-25-PP | 1 |
| SHR-32-6V0B | SHR-32-6NB | SHR-32-PPB | | 1.250 | 32.0 | 1.250 | 32.0 | 0.050 | 1.3 | 0.980 | 24.9 | 49 | 15 | CAT-32-PP | 1 |

CAT Installation Tool for SHR



Features:

- The easiest and quickest way to wrap cables!
- Insert cables into the CAT installation tool
- Feed the slit end of the wrap over the horn of the tool and "zip" the wires into a neat bundle
- Allows for breakout of the cables
- Provides abrasion protection

| Item No. | Max Bundle Ø B | | To Be Used With | Pack Qty. |
|--------------|----------------|------|-----------------|-----------|
| | In | mm | | |
| CAT-05-PP-BL | 0.240 | 6.0 | SHR-05 | 1 |
| CAT-08-PP | 0.370 | 9.5 | SHR-08 | 1 |
| CAT-15-PP | 0.630 | 16.0 | SHR-15 | 1 |
| CAT-20-PP | 0.790 | 20.0 | SHR-20 | 1 |
| CAT-25-PP | 0.960 | 24.5 | SHR-25 | 1 |
| CAT-32-PP | 1.220 | 31.0 | SHR-32 | 1 |



SHR-C
SHR Clip

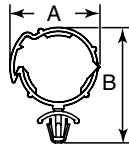
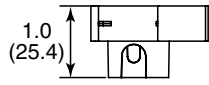


Figure 1

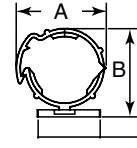


Figure 2

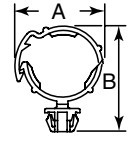


Figure 3

Specifications:

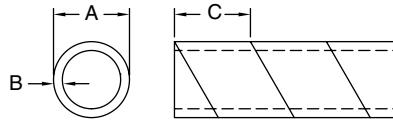
- Material: UL94 V-2 Nylon 6/6
- Color: Black

Features:

- Adjustable clips to hold both the SHR-20 and SHR-25 slit harness wrap (see previous page)
- Internal ribs grip the wrap securely
- Releasable latch allows for easy maintenance
- Four mounting options:
snap into round hole, snap into square hole (prevents rotation), #8 screw mount, adhesive mount

| Item No. | Holding Ø | Mounting Method | Figure | A Ref | | B Ref | | Bulk Pack Qty. |
|----------|-------------------------|-----------------|--|-------|------|-------|------|----------------|
| | | | | In | mm | In | mm | |
| SHR-C1 | To hold SHR-20 & SHR-25 | 1 | Snaps into a .252 In (6.4 mm) Hole in a .031-.079 In, (0.8-2.0 mm) Panel | 1.140 | 29.0 | 1.670 | 42.5 | 500 |
| SHR-C2 | To hold SHR-20 & SHR-25 | 2 | #8 or M4 Screw | 1.180 | 30.0 | 1.280 | 32.5 | 500 |
| SHR-C3 | To hold SHR-20 & SHR-25 | 2 | Adhesive | 1.180 | 30.0 | 1.280 | 32.5 | 500 |
| SHR-C4 | To hold SHR-20 & SHR-25 | 3 | Snaps into a .370 In (9.5 mm) Square Hole in a .031-.079 In (0.8-2.0 mm) Panel | 1.180 | 30.0 | 1.630 | 40.5 | 500 |

HR
Spiral Wrap



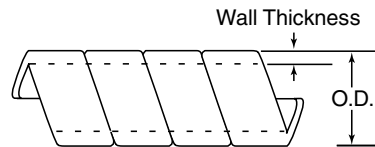
Specifications:

- Material: See Table
- Color: See Table

| Item No. | | Bundle Range | | A Ref. | | B | | C Ref. | | Roll Length | | | |
|---------------|--------------|--------------|----------|---------------|-------------|-------|------|--------|-----|-------------|------|-----|-------|
| Natural | Black | In | mm | In | mm | In | mm | In | mm | Ft | m | | |
| UL94 HB Nylon | Polyethylene | LDPE | Approval | | | | | | | | | | |
| HR2N-1/8 | — | — | RU | 0.062 - 0.500 | 1.6 - 12.7 | 0.125 | 3.2 | 0.020 | 0.5 | 0.170 | 4.3 | 100 | 30.48 |
| HR3N-3/16 | — | — | RU | 0.125 - 1.000 | 3.2 - 25.4 | 0.187 | 4.8 | 0.020 | 0.5 | 0.250 | 6.4 | 100 | 30.48 |
| HR4N-1/4 | — | — | RU | 0.187 - 1.500 | 4.8 - 38.7 | 0.250 | 6.4 | 0.025 | 0.6 | 0.300 | 7.6 | 100 | 30.48 |
| HR6N-3/8 | — | — | RU | 0.312 - 2.000 | 7.9 - 50.8 | 0.375 | 9.5 | 0.035 | 0.9 | 0.380 | 9.5 | 100 | 30.48 |
| HR8N-1/2 | — | — | RU | 0.750 - 3.000 | 19.1 - 76.2 | 0.500 | 12.7 | 0.040 | 1.0 | 0.500 | 12.7 | 100 | 30.48 |
| — | HR2P-1/8 | — | RU | 0.062 - 0.375 | 1.6 - 9.5 | 0.125 | 3.2 | 0.020 | 0.5 | 0.170 | 4.3 | 100 | 30.48 |
| — | HR3P-3/16 | — | RU | 0.125 - 1.000 | 3.2 - 25.4 | 0.187 | 4.8 | 0.030 | 0.8 | 0.250 | 6.4 | 100 | 30.48 |
| — | HR4P-1/4 | — | RU | 0.187 - 1.000 | 4.8 - 25.4 | 0.250 | 6.4 | 0.050 | 1.3 | 0.300 | 7.6 | 100 | 30.48 |
| — | HR6P-3/8 | — | RU | 0.312 - 2.000 | 7.9 - 50.8 | 0.375 | 9.5 | 0.050 | 1.3 | 0.380 | 9.5 | 100 | 30.48 |
| — | HR8P-1/2 | — | RU | 0.750 - 3.000 | 19.1 - 76.2 | 0.500 | 12.7 | 0.060 | 1.5 | 0.500 | 12.7 | 100 | 30.48 |
| — | — | HR4U1/4 | RU | 0.187 - 0.750 | 4.8 - 19.1 | 0.250 | 6.4 | 0.050 | 1.3 | 0.300 | 7.6 | 100 | 30.48 |
| — | — | HR6U-3/8 | RU | 0.312 - 2.000 | 7.9 - 50.8 | 0.375 | 9.5 | 0.050 | 1.3 | 0.380 | 9.5 | 100 | 30.48 |
| — | — | HR8U-1/2 | RU | 0.750 - 3.500 | 19.1 - 88.9 | 0.500 | 12.7 | 0.060 | 1.5 | 0.500 | 12.7 | 100 | 30.48 |

SGXL

UV Resistant Spiral Wrap



Specifications:

- Material: UV Resistant Polyethylene
- Color: Black

Features:

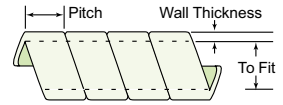
- Crush resistant
- Flexible and easy to install
- Protects against wear without restricting flexibility
- Allows for any point wire exiting

| Item No. | OD | | Wall | | Bundle Range | Roll Length | |
|-----------|------|-------|-------|------|--------------|-------------|-------|
| | In | mm | In | mm | | Ft | m |
| SGX0125LA | 1/8 | 3.20 | 0.032 | 0.81 | 1/16 to 1/4 | 100 | 30.48 |
| SGX0187LA | 3/16 | 4.80 | 0.030 | 0.76 | 1/8 to 1 | 100 | 30.48 |
| SGX0250LA | 1/4 | 6.40 | 0.040 | 1.02 | 3/16 to 2 | 100 | 30.48 |
| SGX0375LA | 3/8 | 9.50 | 0.052 | 1.32 | 5/16 to 3 | 100 | 30.48 |
| SGX0500LA | 1/2 | 12.70 | 0.062 | 1.57 | 3/8 to 4 | 100 | 30.48 |
| SGX0625LA | 5/8 | 15.90 | 0.062 | 1.57 | 5/8 to 4-1/2 | 100 | 30.48 |
| SGX0750LA | 3/4 | 19.10 | 0.065 | 1.65 | 3/4 to 5 | 100 | 30.48 |
| SGX1000LA | 1 | 25.40 | 0.095 | 2.41 | 1 to 7 | 100 | 30.48 |



HOSE PROTECTION

SGX Series TECTORGUARD™ Heavy & Medium Duty Hose Guards



Specifications:

- Material: High-Density Polyethylene
- Color: Refer to Chart

Features:

- TECTORGUARD™ protects against cuts, abrasions, crushing and ultraviolet rays that regularly destroy your expensive hoses
- Easy and safe to install either before or after the hose assembly is mounted
- The heavy-duty, double-beveled design on the inside and outside edge prevents snagging or cutting during installation

Heavy Duty - Heavy Abrasion

| Black Item No. | Yellow Item No. | To Fit | | Wall Thickness | | Pitch | | Roll Length | |
|----------------|-----------------|--------|-------|----------------|-------|--------|-----|-------------|---|
| | | In | In | mm | mm | In | mm | Ft | m |
| SGX16HA | - | 0.492 | 0.069 | 1.75 | 0.490 | 12.45 | 100 | 30.48 | |
| SGX20HA | - | 0.668 | 0.086 | 2.18 | 0.610 | 15.49 | 100 | 30.48 | |
| SGX25HA | SGX25HB | 0.750 | 0.110 | 2.79 | 0.950 | 24.13 | 100 | 30.48 | |
| SGX32HA | SGX32HB | 1.014 | 0.118 | 2.99 | 1.040 | 26.42 | 100 | 30.48 | |
| SGX39HA | SGX39HB | 1.250 | 0.132 | 3.35 | 1.350 | 34.29 | 100 | 30.48 | |
| SGX45HA | SGX45HB | 1.500 | 0.140 | 3.55 | 1.500 | 38.10 | 100 | 30.48 | |
| SGX50HA | - | 1.600 | 0.150 | 3.81 | 1.530 | 38.68 | 50 | 15.24 | |
| SGX59HA | - | 2.000 | 0.160 | 4.06 | 1.600 | 40.64 | 100 | 30.48 | |
| SGX75HA | SGX75HB | 2.457 | 0.209 | 5.30 | 1.610 | 40.89 | 50 | 15.24 | |
| SGX90HA | SGX90HC | 3.064 | 0.218 | 5.53 | 1.970 | 50.04 | 35 | 10.66 | |
| SGX102HA | SGX102HB | 3.500 | 0.250 | 6.35 | 1.950 | 49.53 | 25 | 7.62 | |
| SGX114HA | SGX114HB | 4.000 | 0.250 | 6.35 | 2.100 | 53.34 | 20 | 6.09 | |
| SGX165HA | SGX165HB | 6.000 | 0.250 | 6.35 | 4.000 | 101.60 | 15 | 4.57 | |

Medium Duty - Flexible with Medium Abrasion

| Item No. | To Fit | | Wall Thickness | | Pitch | | Color | Roll Length | |
|----------|--------|-------|----------------|-------|-------|-------|-------|-------------|---|
| | In | In | mm | mm | In | mm | | Ft | m |
| SGX16MA | 0.492 | 0.045 | 1.14 | 0.490 | 12.45 | Black | 100 | 30.48 | |
| SGX20MA | 0.668 | 0.052 | 1.32 | 0.610 | 15.49 | Black | 100 | 30.48 | |
| SGX25MA | 0.750 | 0.062 | 1.57 | 0.800 | 20.32 | Black | 100 | 30.48 | |
| SGX32MA | 1.014 | 0.071 | 1.80 | 1.040 | 26.42 | Black | 100 | 30.48 | |
| SGX39MA | 1.250 | 0.080 | 2.03 | 1.350 | 34.29 | Black | 100 | 30.48 | |
| SGX50MA | 1.600 | 0.090 | 2.28 | 1.530 | 38.66 | Black | 50 | 15.24 | |
| SGX75MA | 2.457 | 0.125 | 3.17 | 1.610 | 40.89 | Black | 50 | 15.24 | |
| SGX90MA | 3.064 | 0.131 | 3.32 | 1.970 | 50.04 | Black | 35 | 10.66 | |

SGX FRAS Series SPIRALGUARD™ Flame Retardant Antistatic Series

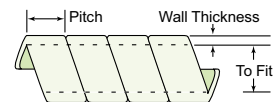
Specifications:

- Material: High-Density Polyethylene
- Color: Dark Gray



Features:

- Exceptional anti-crushing performance
- High abrasion resistance
- Good resistance to UV rays
- Reduces risk of industrial injury
- Suitable for wrapping single or multiple hoses
- Proven in arduous conditions
- Suitable for the protection of most types of hydraulic, pneumatic and industrial hose assemblies across a wide range of industries: mining, quarrying, drilling, tunnelling, forestry, welding, manufacturing, agricultural, automotive, marine sub-sea, offshore oil and gas construction



Approvals and Certifications:

- Tested and approved in accordance with the former British Coal specification 182:1986, satisfying the requirements of the non-metallics scheme for use underground
- Tested and approved by Mine Safety Laboratory, Department of Mineral Resources NSW to AS2660 FRAS Compliance – 1991 International Standard: ISO6805
- Patented product US6286557B1

| Item No. | To Fit | | Wall Thickness | | Pitch | | Roll Length | |
|-------------|--------|-------|----------------|-------|-------|-------|-------------|---|
| | In | In | mm | mm | In | mm | Ft | m |
| SGX16FRASA | 0.472 | 0.089 | 2.25 | 0.510 | 12.95 | 65.62 | 20 | |
| SGX20FRASA | 0.591 | 0.098 | 2.50 | 0.610 | 15.49 | 65.62 | 20 | |
| SGX25FRASA | 0.748 | 0.108 | 2.75 | 0.750 | 19.05 | 65.62 | 20 | |
| SGX32FRASA | 0.906 | 0.138 | 3.50 | 0.900 | 22.86 | 65.62 | 20 | |
| SGX40FRASA | 1.201 | 0.167 | 4.25 | 1.140 | 28.96 | 65.62 | 20 | |
| SGX50FRASA | 1.496 | 0.167 | 4.25 | 1.420 | 36.07 | 65.62 | 20 | |
| SGX63FRASA | 1.850 | 0.217 | 5.50 | 1.550 | 39.37 | 65.62 | 20 | |
| SGX75FRASA | 2.402 | 0.236 | 6.00 | 1.730 | 43.94 | 65.62 | 20 | |
| SGX90FRASA | 2.776 | 0.276 | 7.00 | 2.000 | 50.80 | 65.62 | 20 | |
| SGX110FRASA | 3.307 | 0.295 | 7.50 | 2.200 | 55.88 | 32.81 | 10 | |

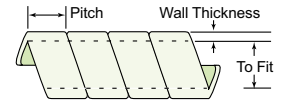


TFG Series
Lightweight & Flexible



Specifications:

- Material: Cellulose Acetate
- Color: Black



Features:

- Unique profile will cover much more hose surface during a bending process than any other wrap
- The inner core assures flexibility while the external profile assures resistance to abrasion and to electrical conductivity
- Lightweight and flexible
- Crush resistant
- Excellent memory

| Item No. | To Fit | | Wall Thickness | | Pitch | | Roll Length | |
|----------|--------|-------|----------------|-------|-------|----|-------------|---|
| | In | mm | In | mm | In | mm | Ft | m |
| TFG08HA | 0.250 | 0.050 | 1.27 | 0.250 | 6.35 | 40 | 12.19 | |
| TFG12HA | 0.370 | 0.050 | 1.27 | 0.250 | 6.35 | 40 | 12.19 | |
| TFG16HA | 0.500 | 0.070 | 1.78 | 0.500 | 12.70 | 40 | 12.19 | |
| TFG20HA | 0.620 | 0.070 | 1.78 | 0.500 | 12.70 | 40 | 12.19 | |
| TFG25HA | 0.750 | 0.090 | 2.29 | 0.620 | 15.74 | 40 | 12.19 | |
| TFG32HA | 1.000 | 0.090 | 2.29 | 0.620 | 15.74 | 40 | 12.19 | |
| TFG35HA | 1.100 | 0.090 | 2.29 | 1.000 | 25.40 | 40 | 12.19 | |
| TFG39HA | 1.250 | 0.090 | 2.29 | 1.000 | 25.40 | 40 | 12.19 | |
| TFG44HA | 1.380 | 0.090 | 2.29 | 1.000 | 25.40 | 40 | 12.19 | |

| Item No. | To Fit | | Wall Thickness | | Pitch | | Roll Length | |
|----------|--------|-------|----------------|-------|-------|----|-------------|---|
| | In | mm | In | mm | In | mm | Ft | m |
| TFG45HA | 1.500 | 0.090 | 2.29 | 1.000 | 25.40 | 40 | 12.19 | |
| TFG50HA | 1.600 | 0.090 | 2.29 | 1.000 | 25.40 | 40 | 12.19 | |
| TFG56HA | 1.750 | 0.110 | 2.79 | 1.400 | 35.56 | 40 | 12.19 | |
| TFG59HA | 2.000 | 0.130 | 3.30 | 1.400 | 35.56 | 40 | 12.19 | |
| TFG82HA | 2.560 | 0.150 | 3.81 | 1.400 | 35.56 | 25 | 7.62 | |
| TFG90HA | 3.000 | 0.150 | 3.81 | 1.400 | 35.56 | 25 | 7.62 | |
| TFG95HA | 3.150 | 0.150 | 3.81 | 1.400 | 35.56 | 25 | 7.62 | |
| TFG102HA | 3.500 | 0.150 | 3.81 | 1.000 | 25.40 | 25 | 7.62 | |
| TFG114HA | 4.000 | 0.150 | 3.81 | 1.260 | 32.00 | 25 | 7.62 | |

THP Series
Point of Contact Protectors

Specifications:
Material: PVC
Color: Refer to Chart

Features:
Protects hose and wire abrasion caused by points of contact wear with frames or other abrasive surfaces
Material is very durable and has a high wear factor
Molded in grooves prevent the slipping and wear of cable ties
Easy to assemble and remove
Typically used on hydraulic hoses, fuel and oil lines, brake systems, wiring harnesses and battery cables
The THPSD4B is to be used on 1/2" hoses and smaller since it is designed with a smaller radius



ALLIANCE

| Item No. | Color | | | Length In | Pack Qty. | Bulk Pack Qty. |
|----------|--------|--------|--------|-----------|-----------|----------------|
| | Black | Orange | Yellow | | | |
| THPSD4B | - | - | - | 4 | 1 | 50 |
| THP4B | THP4A | THP4C | | 4 | 1 | 50 |
| THP6B | THP6A | THP6C | | 6 | 1 | 50 |
| THP8B | THP8A | THP8C | | 8 | 1 | 50 |
| THP10B | THP10A | THP10C | | 10 | 1 | 10 |
| THP12B | THP12A | THP12C | | 12 | 1 | 10 |

Each THP Assembly Requires 3 Ties

Specifications:
• Material: UL Approved 94V-2 Nylon 6/6
• Color: Refer to Chart
• Service Temperature: -40°F to 185°F (-40°C to 85°C)

Features:
• Complies with MS-3367 and MIL-S-23190E
• RoHS Compliant



| Item No. | Color | | | | | | |
|----------|---------|--------|--------|--------|--------|--------|--------|
| | Natural | Black | Green | Red | Yellow | Blue | Silver |
| CT025A | CT025B | CT025G | CT025K | CT025Y | CT025L | CT025S | |

| Item No. | Length | | Width | | Max Bundle Dia. | | Minimum Tensile Strength | | Classification | Bulk Pack Qty. |
|----------|--------|-----|-------|-----|-----------------|----|--------------------------|-----|----------------|----------------|
| | In | mm | In | mm | In | mm | Lbs | kgs | | |
| CT025A | 11-7/8 | 300 | 0.189 | 4.8 | 3.350 | 85 | 50 | 222 | Standard | 100 |

TQS Series
Quick Assemble Hose Sleeves



Specifications:
• Material: Nylon with a Urethane Coating on one Side
• Color: Black

Features:

- Excellent for use in the field or for applications where the winding of spiral-formed products is very difficult
- Resistant to heat, ozone and abrasion
- Special innovative Python® hook-and-loop design closure promotes a quick and easy bundling of hose groups
- Close quarter operator protection from hose failures
- Easy assembly and removal
- Containment of hoses and tighter bundling
- Professional appearance – enhances the aesthetics of your equipment

| Item No. | Bundle O.D. | | Flat Width | | Roll Length | |
|----------|-------------|--------|------------|--------|-------------|-------|
| | In | mm | In | mm | Ft | m |
| TQS2A | 2 | 50.80 | 7.750 | 196.85 | 150 | 45.72 |
| TQS3A | 3 | 76.20 | 10.900 | 276.86 | 150 | 45.72 |
| TQS4A | 4 | 101.60 | 14.000 | 355.60 | 150 | 45.72 |
| TQS5A | 5 | 127.00 | 17.250 | 438.15 | 150 | 45.72 |

| Item No. | Bundle O.D. | | Flat Width | | Roll Length | |
|----------|-------------|--------|------------|--------|-------------|-------|
| | In | mm | In | mm | Ft | m |
| TQS6A | 6 | 152.40 | 20.380 | 517.65 | 150 | 45.72 |
| TQS7A | 7 | 177.80 | 23.500 | 596.90 | 150 | 45.72 |
| TQS8A | 8 | 203.20 | 26.620 | 676.15 | 150 | 45.72 |



HOSE PROTECTION

Quick Assemble Cable or Hose Sleeve

Specifications:

- Material: Sleeve - Polyester
Hook and Loop - Polyamide
- Color: Black

Features:

- Lightweight but high strength and abrasion resistance
- Easy assembly and removal
- Breakouts are simple by bringing out through the hook and loop



| Item No. | I.D. | | Spread Width | | Roll Length | |
|----------|-------|----|--------------|-----|-------------|----|
| | In | mm | In | mm | Ft | m |
| 900328 | 0.787 | 20 | 3.149 | 80 | 82 | 25 |
| 900329 | 0.984 | 25 | 3.740 | 95 | 82 | 25 |
| 900330 | 1.181 | 30 | 4.527 | 115 | 82 | 25 |
| 900331 | 1.377 | 35 | 5.118 | 130 | 82 | 25 |
| 900332 | 1.574 | 40 | 5.748 | 146 | 82 | 25 |
| 900333 | 1.771 | 45 | 6.377 | 162 | 82 | 25 |
| 900334 | 1.968 | 50 | 7.007 | 178 | 82 | 25 |

TSL Series

Mining Safety Approved Sleeve



Specifications:

- Material: Polyamide 6 Yarn
- Color: Black

Features:

- Protects people, environment and machinery against any possible hydraulic hose oil leakage or spills
- Very dense, yet not bulky
- Optimum UV and abrasion protection
- High degree of burst resistance; good leakage containment
- Effective in reducing the concentrated stream of pinhole leaks

Approvals and Certifications:

- M.S.H.A. Approval #M.S.H.A. IC-234/0
- Meets FED-STD-191 test method 5309 for abrasion resistance
- Meets ASTM D6770 for abrasion resistance of textile webbing

| Item No. | Min Round I.D. | | Max Round | | External Flattened Width | | Roll Length | |
|----------|----------------|--------|-----------|--------|--------------------------|--------|-------------|-------|
| | In | mm | In | mm | In | mm | Ft | m |
| TSL067A | 0.680 | 17.27 | 0.840 | 21.34 | 1.180 | 29.97 | 300 | 91.44 |
| TSL079A | 0.790 | 20.06 | 0.950 | 24.13 | 1.340 | 34.03 | 300 | 91.44 |
| TSL091A | 0.910 | 23.11 | 1.030 | 26.16 | 1.540 | 39.11 | 300 | 91.44 |
| TSL098A | 0.980 | 24.89 | 1.100 | 27.94 | 1.650 | 41.91 | 300 | 91.44 |
| TSL106A | 1.060 | 26.92 | 1.180 | 29.97 | 1.770 | 44.95 | 300 | 91.44 |
| TSL122A | 1.220 | 30.98 | 1.340 | 34.04 | 2.050 | 52.07 | 300 | 91.44 |
| TSL142A | 1.420 | 36.06 | 1.540 | 39.12 | 2.390 | 60.71 | 300 | 91.44 |
| TSL157A | 1.570 | 39.87 | 1.730 | 43.94 | 2.600 | 66.04 | 300 | 91.44 |
| TSL173A | 1.730 | 43.94 | 1.890 | 48.01 | 2.830 | 71.88 | 300 | 91.44 |
| TSL185A | 1.850 | 46.99 | 2.010 | 51.05 | 3.030 | 76.96 | 300 | 91.44 |
| TSL217A | 2.190 | 55.63 | 2.350 | 59.69 | 3.500 | 88.90 | 300 | 91.44 |
| TSL236A | 2.380 | 60.45 | 2.540 | 64.52 | 3.820 | 97.02 | 300 | 91.44 |
| TSL260A | 2.620 | 66.54 | 2.780 | 70.61 | 4.210 | 106.93 | 300 | 91.44 |
| TSL287A | 2.880 | 73.15 | 3.040 | 77.22 | 4.650 | 118.11 | 300 | 91.44 |
| TSL366A | 3.660 | 92.96 | 3.820 | 97.03 | 5.870 | 149.09 | 300 | 91.44 |
| TSL441A | 4.410 | 112.01 | 4.570 | 116.08 | 7.050 | 179.07 | 300 | 91.44 |

Hook and Loop Braided Cable or Hose Wrap

Specifications:

- Material: Polyester and Polyolefin
- Color: Black

Features:

- Provides excellent abrasion resistance and noise reduction
- Can be easily installed over connectors, fittings, splices, cables and hoses



| Item No. | Nominal Size | | Max Bundle Dia. | | Hook & Loop Width | | Roll Length | |
|----------|--------------|----|-----------------|----|-------------------|----|-------------|----|
| | In | mm | In | mm | In | mm | Ft | m |
| 900346 | 0.512 | 13 | 0.315 | 8 | 0.394 | 10 | 164 | 50 |
| 900347 | 0.748 | 19 | 0.472 | 12 | 0.394 | 10 | 164 | 50 |
| 900348 | 1.260 | 32 | 0.787 | 20 | 0.787 | 20 | 164 | 50 |
| 900349 | 2.008 | 51 | 1.260 | 32 | 0.787 | 20 | 164 | 50 |
| 900350 | 2.520 | 64 | 1.575 | 40 | 0.787 | 20 | 164 | 50 |

Hose & Cable Protection Sleeve

Specifications:

- Material: Polyester
- Color: Black

Features:

- Lightweight but high strength and abrasion resistance
- Protects people, environment and machinery against hydraulic hose ruptures

| Item No. | Flattened Width | | Round I.D. | | Roll Length | |
|----------|-----------------|-----|------------|-----|-------------|------|
| | In | mm | In | mm | Ft | m |
| 900343 | 0.787 | 20 | 0.472 | 12 | 100 | 30.5 |
| 900344 | 0.984 | 25 | 0.591 | 15 | 100 | 30.5 |
| 900345 | 1.181 | 30 | 0.748 | 19 | 100 | 30.5 |
| 900346 | 1.378 | 35 | 0.866 | 22 | 100 | 30.5 |
| 900347 | 1.575 | 40 | 0.984 | 25 | 100 | 30.5 |
| 900348 | 1.772 | 45 | 1.102 | 28 | 100 | 30.5 |
| 900349 | 1.969 | 50 | 1.220 | 31 | 100 | 30.5 |
| 900350 | 2.362 | 60 | 1.496 | 38 | 100 | 30.5 |
| 900351 | 2.756 | 70 | 1.732 | 44 | 100 | 30.5 |
| 900352 | 3.150 | 80 | 1.969 | 50 | 100 | 30.5 |
| 900353 | 3.543 | 90 | 2.244 | 57 | 100 | 30.5 |
| 900354 | 3.937 | 100 | 2.362 | 60 | 100 | 30.5 |
| 900355 | 4.528 | 115 | 2.756 | 70 | 50 | 15.0 |
| 900356 | 5.709 | 145 | 3.543 | 90 | 50 | 15.0 |
| 900357 | 6.929 | 176 | 4.331 | 110 | 50 | 15.0 |
| 900358 | 7.874 | 200 | 4.921 | 125 | 50 | 15.0 |



FPS Series

Fire Protection Sleeve

Specifications:

- Material: Outer Sleeve - Proprietary Iron Oxide Red Silicone Rubber
- Inner Sleeve - Knitted high bulk glass fiber

Features:

- Excellent elasticity great for protecting or bundling hoses, tubes, and cables in hostile environments
- Insulation properties provide close quartered personnel with protection against burns from hot hoses and reduce heat energy loss
- Withstands intense radiant heat and flame:
 - Continuous exposure up to 500°F(260°C)
 - 15-20 min. up to 2000°F(1090°C), 15-30 sec. up to 3000°F(1650°C)
- Immediately sheds splash; withstands repeated exposures to molten steel, molten aluminum and molten glass up to 3000°F(1650°C)



| Item No. | I.D. | Roll Length |
|-----------|--------|-------------|
| FPS1/4A | 1/4" | 50 |
| FPS5/16A | 5/16" | 50 |
| FPS3/8A | 3/8" | 50 |
| FPS1/2A | 1/2" | 50 |
| FPS5/8A | 5/8" | 50 |
| FPS3/4A | 3/4" | 50 |
| FPS7/8A | 7/8" | 50 |
| FPS1A | 1" | 50 |
| FPS1-1/4A | 1-1/4" | 50 |
| FPS1-1/2A | 1-1/2" | 50 |
| FPS2A | 2" | 50 |
| FPS2-1/2A | 2-1/2" | 50 |
| FPS3A | 3" | 50 |
| FPS3-1/2A | 3-1/2" | 50 |
| FPS4A | 4" | 50 |



HOSE PROTECTION

MTS Series Self-Bonding Silicone Tape

Specifications:

- Material: Red Silicone on a Mylar film
- -65°F (-54°C) to 500°F (260°C)

Features:

- Self-bonding – no adhesive (Sticks only to itself)
- Form fitting, making it an excellent solution for odd shapes
- Waterproof seal after 24-hour self-bonding cure
- Excellent electrical properties: dielectric strength of 300 VPM min at 356°F
- Applications: high-temperature cures, powder coating, e-coating, plating, anodizing and electrical harness wrapping

Thermal Protection Sleeve

Specifications:

- Material: Nomex™ Fiber
- Color: Natural

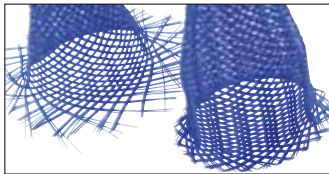
Features:

- Provides thermal protection and high abrasion resistance
- Soft feel and smooth appearance makes installation easy
- Cuts easily with standard scissors
- Operating Range: -320°F to 662°F (-196°C to 350°C)



| Item No. | Nominal Size | | Expansion Range | | Roll Length | |
|----------|--------------|----|-----------------|-------|-------------|-------|
| | In | mm | In | mm | Ft | m |
| 900335 | 0.118 | 3 | 0.039 | 0.157 | 100 | 30.48 |
| 900336 | 0.236 | 6 | 0.196 | 0.314 | 100 | 30.48 |
| 900337 | 0.314 | 8 | 0.236 | 0.393 | 100 | 30.48 |
| 900338 | 0.393 | 10 | 0.275 | 0.511 | 100 | 30.48 |
| 900339 | 0.472 | 12 | 0.314 | 0.629 | 100 | 30.48 |
| 900340 | 0.591 | 15 | 0.393 | 0.787 | 100 | 30.48 |
| 900341 | 0.787 | 20 | 0.551 | 1.023 | 100 | 30.48 |
| 900342 | 0.984 | 25 | 0.708 | 1.299 | 100 | 30.48 |
| 900343 | 1.181 | 30 | 0.787 | 1.535 | 100 | 30.48 |
| 900344 | 1.574 | 40 | 1.181 | 2.047 | 100 | 30.48 |
| 900345 | 1.968 | 50 | 1.574 | 2.559 | 100 | 30.48 |

Scissor Cut Sleeve



Specifications:

- Material: Polyester
- Color: Black

Features:

- Can be cut with scissors and maintain a frayless end
- Perfect when used in the field where a hot knife is not available
- Excellent abrasion resistance
- Typically used with cables or wires

| Item No. | Nominal Size | | Expansion Range | | | | Roll Length | |
|----------|--------------|----|-----------------|--------|--------|--------|-------------|-------|
| | In | mm | Min In | Min mm | Max In | Max mm | Ft | m |
| 900289 | 0.125 | 3 | 0.039 | 1 | 0.197 | 5 | 200 | 60.98 |
| 900290 | 0.250 | 6 | 0.118 | 3 | 0.315 | 8 | 200 | 60.98 |
| 900291 | 0.312 | 8 | 0.197 | 5 | 0.394 | 10 | 100 | 30.49 |
| 900292 | 0.375 | 10 | 0.276 | 7 | 0.472 | 12 | 100 | 30.49 |
| 900293 | 0.500 | 12 | 0.315 | 8 | 0.551 | 14 | 100 | 30.49 |
| 900294 | 0.625 | 15 | 0.394 | 10 | 0.709 | 18 | 100 | 30.49 |
| 900295 | 0.750 | 20 | 0.551 | 14 | 0.906 | 23 | 50 | 15.24 |
| 900296 | 1.000 | 25 | 0.709 | 18 | 1.102 | 28 | 50 | 15.24 |
| 900297 | 1.250 | 30 | 0.787 | 20 | 1.378 | 35 | 50 | 15.24 |
| 900298 | 1.500 | 40 | 1.181 | 30 | 1.654 | 42 | 50 | 15.24 |
| 900299 | 1.750 | 45 | 1.378 | 35 | 1.890 | 48 | 50 | 15.24 |
| 900300 | 2.000 | 50 | 1.575 | 40 | 2.126 | 54 | 50 | 15.24 |
| 900301 | 2.500 | 64 | 1.772 | 45 | 2.756 | 70 | 50 | 15.24 |
| 900302 | 3.000 | 76 | 2.520 | 64 | 3.150 | 80 | 50 | 15.24 |



| Item No. | Roll Width | | Roll Length | | Thickness Mils |
|----------|------------|-------|-------------|----|----------------|
| | In | mm | Yds | m | |
| MTS2010A | 1" | 25.40 | 12 | 11 | 20 |
| MTS4010A | 1" | 25.40 | 12 | 11 | 40 |

Textile Heatshrink Sleeve

Specifications:

- Material: Polyester and Polyolefin
- Color: Black
- Shrink Ratio: 2:1
- Min. Shrink Temperature: 176°F (80°C)
- Min. Full Recovery Temperature: 248°F (120°C)

Features:

- Provides excellent abrasion resistance and noise reduction
- Can be easily installed over connectors, fittings, splices, cables and hoses



| Item No. | Nominal Size | | As Supplied I.D. | | After Recovery I.D. | | Roll Length | |
|----------|--------------|----|------------------|----|---------------------|------|-------------|-------|
| | In | mm | In | mm | In | mm | Ft | m |
| 900317 | 0.375 | 10 | 0.393 | 10 | 0.196 | 5.0 | 100 | 30.49 |
| 900318 | 0.500 | 12 | 0.472 | 12 | 0.236 | 6.0 | 100 | 30.49 |
| 900319 | 0.750 | 20 | 0.787 | 20 | 0.393 | 10.0 | 100 | 30.49 |
| 900320 | 1.000 | 25 | 0.984 | 25 | 0.492 | 12.5 | 100 | 30.49 |
| 900321 | 1.250 | 30 | 1.181 | 30 | 0.59 | 15.0 | 100 | 30.49 |
| 900322 | 1.338 | 34 | 1.338 | 34 | 0.669 | 17.0 | 100 | 30.49 |
| 900323 | 1.500 | 40 | 1.574 | 40 | 0.787 | 20.0 | 100 | 30.49 |
| 900324 | 2.000 | 50 | 1.968 | 50 | 0.984 | 25.0 | 100 | 30.49 |
| 900325 | 2.375 | 60 | 2.362 | 60 | 1.181 | 30.0 | 100 | 30.49 |
| 900326 | 2.750 | 70 | 2.755 | 70 | 1.377 | 35.0 | 100 | 30.49 |
| 900327 | 3.125 | 80 | 3.149 | 80 | 1.574 | 40.0 | 100 | 30.49 |

Expandable Sleeve



Specifications:

- Material: Polyester
- Color: Black

Features:

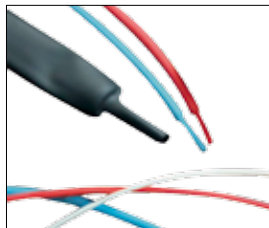
- The open weave construction allows for easy installation reducing assembly cost
- Cut and abrasion resistant with high thermal properties
- Flame-retardant, chemical resistant, and halogen free
- Used on wire harnessing applications where durability and low cost are essential
- Typically used with cables or wires

| Item No. | Nominal Size | | Expansion Range | | | | Roll Length | |
|----------|--------------|----|-----------------|--------|--------|--------|-------------|-------|
| | In | mm | Min In | Min mm | Max In | Max mm | Ft | m |
| 900303 | 0.125 | 3 | 0.039 | 1 | 0.236 | 6 | 200 | 60.98 |
| 900304 | 0.250 | 6 | 0.118 | 3 | 0.354 | 9 | 200 | 60.98 |
| 900305 | 0.312 | 8 | 0.197 | 5 | 0.630 | 16 | 100 | 30.49 |
| 900306 | 0.375 | 10 | 0.276 | 7 | 0.748 | 19 | 100 | 30.49 |
| 900307 | 0.500 | 12 | 0.315 | 8 | 0.945 | 24 | 100 | 30.49 |
| 900308 | 0.625 | 15 | 0.394 | 10 | 1.063 | 27 | 100 | 30.49 |
| 900309 | 0.750 | 20 | 0.551 | 14 | 1.181 | 30 | 50 | 15.24 |
| 900310 | 1.000 | 25 | 0.709 | 18 | 1.378 | 35 | 50 | 15.24 |
| 900311 | 1.250 | 30 | 0.787 | 20 | 1.969 | 50 | 50 | 15.24 |
| 900312 | 1.500 | 40 | 1.181 | 30 | 2.362 | 60 | 50 | 15.24 |
| 900313 | 1.750 | 45 | 1.378 | 35 | 2.953 | 75 | 50 | 15.24 |
| 900314 | 2.000 | 50 | 1.575 | 40 | 3.150 | 80 | 50 | 15.24 |
| 900315 | 2.500 | 64 | 1.772 | 45 | 4.134 | 105 | 50 | 15.24 |
| 900316 | 3.000 | 76 | 2.520 | 64 | 4.724 | 120 | 50 | 15.24 |



HEAT SHRINK TUBING

HST 2:1 Heat Shrink Tubing



Specifications:

- Material: Crosslinked Polyolefin
- Color: See Chart
- Operating Temp: -67°F to 257°F (-55°C to 125°C)
- Min. shrink temp: 158°F (70°C)
- Min. full recovery temp: 212°F (100°C)
- Shrink ratio: 2:1

Features:

- UL Approval: 125°C VW-1 600V File No. E204071
- RoHS Compliant
- Widely used in the communication, electronics and automotive fields
- Excellent electrical and physical properties
- Provided in standard roll lengths
- Flame retardant
- Highly flexible
- Comes in a variety of colors to color code wires, cables, terminals and components
- Provided in mini or standard roll lengths

EZ Dispenser Mini Roll



| Item No. | | | | Size (In) | As Supplied | | After Recovery | | | | Roll Length | |
|----------|--------|--------|--------|-----------|--------------|--------|--------------------|-------------|-------|------|-------------|----|
| | | | | | Inside Ø Min | ID Max | Wall Thickness Min | Roll Length | | | | |
| Black | Red | Blue | White | In | mm | In | mm | In | mm | ft | m | |
| 495676 | 495699 | 495745 | 495814 | 3/64 | 0.047 | 1.20 | 0.024 | 0.60 | 0.013 | 0.33 | 32.8 | 10 |
| 495677 | 495700 | 495746 | 495815 | 1/16 | 0.063 | 1.60 | 0.031 | 0.80 | 0.014 | 0.36 | 32.8 | 10 |
| 495678 | 495701 | 495747 | 495816 | 3/32 | 0.094 | 2.40 | 0.047 | 1.20 | 0.017 | 0.44 | 32.8 | 10 |
| 495679 | 495702 | 495748 | 495817 | 1/8 | 0.126 | 3.20 | 0.063 | 1.60 | 0.017 | 0.44 | 32.8 | 10 |
| 495680 | 495703 | 495749 | 495818 | 3/16 | 0.189 | 4.80 | 0.094 | 2.40 | 0.020 | 0.51 | 32.8 | 10 |
| 495681 | 495704 | 495750 | 495819 | 1/4 | 0.252 | 6.40 | 0.126 | 3.20 | 0.022 | 0.56 | 16.4 | 5 |
| 495682 | 495705 | 495751 | 495820 | 3/8 | 0.374 | 9.50 | 0.189 | 4.80 | 0.022 | 0.56 | 16.4 | 5 |
| 495683 | 495706 | 495752 | 495821 | 1/2 | 0.500 | 12.7 | 0.252 | 6.40 | 0.026 | 0.65 | 16.4 | 5 |
| 495684 | 495707 | 495753 | 495822 | 3/4 | 0.748 | 19.0 | 0.394 | 10.0 | 0.031 | 0.80 | 16.4 | 5 |
| 495685 | 495708 | 495754 | 495823 | 1 | 1.000 | 25.4 | 0.492 | 12.5 | 0.035 | 0.90 | 16.4 | 5 |

Standard Roll



| Item No. | | | | Size (In) | As Supplied | | After Recovery | | | | Roll Length | |
|----------|--------|--------|--------|-----------|--------------|--------|--------------------|-------------|-------|------|-------------|-----|
| | | | | | Inside Ø Min | ID Max | Wall Thickness Min | Roll Length | | | | |
| Black | Red | Blue | White | In | mm | In | mm | In | mm | ft | m | |
| 495686 | 495709 | 495755 | 495824 | 3/64 | 0.047 | 1.20 | 0.024 | 0.60 | 0.013 | 0.33 | 492 | 150 |
| 495687 | 495710 | 495756 | 495825 | 1/16 | 0.063 | 1.60 | 0.031 | 0.80 | 0.014 | 0.36 | 492 | 150 |
| 495688 | 495711 | 495757 | 495826 | 3/32 | 0.094 | 2.40 | 0.047 | 1.20 | 0.017 | 0.44 | 492 | 150 |
| 495689 | 495712 | 495758 | 495827 | 1/8 | 0.126 | 3.20 | 0.063 | 1.60 | 0.017 | 0.44 | 492 | 150 |
| 495690 | 495713 | 495759 | 495828 | 3/16 | 0.189 | 4.80 | 0.094 | 2.40 | 0.020 | 0.51 | 246 | 75 |
| 495691 | 495714 | 495760 | 495829 | 1/4 | 0.252 | 6.40 | 0.126 | 3.20 | 0.022 | 0.56 | 246 | 75 |
| 495692 | 495715 | 495761 | 495830 | 3/8 | 0.374 | 9.50 | 0.189 | 4.80 | 0.022 | 0.56 | 246 | 75 |
| 495693 | 495716 | 495762 | 495831 | 1/2 | 0.500 | 12.70 | 0.252 | 6.40 | 0.026 | 0.65 | 164 | 50 |
| 495694 | 495717 | 495763 | 495832 | 5/8 | 0.630 | 16.00 | 0.315 | 8.00 | 0.027 | 0.69 | 164 | 50 |
| 495695 | 495718 | 495764 | 495833 | 3/4 | 0.748 | 19.00 | 0.374 | 9.50 | 0.031 | 0.80 | 98.4 | 30 |
| HST022A | — | — | — | 15/16 | 0.913 | 23.20 | 0.433 | 11.00 | 0.030 | 0.80 | 164 | 50 |
| 495696 | 495719 | 495765 | 495834 | 1 | 1.000 | 25.40 | 0.500 | 12.70 | 0.035 | 0.90 | 98.4 | 30 |
| 495697 | 495720 | 495766 | 495835 | 1-1/4 | 1.260 | 32.00 | 0.630 | 16.00 | 0.040 | 1.02 | 98.4 | 30 |
| 495698 | 495721 | 495767 | 495836 | 1-1/2 | 1.500 | 38.10 | 0.748 | 19.00 | 0.040 | 1.02 | 98.4 | 30 |
| HST027A | — | — | — | 1-3/4 | 1.693 | 43.00 | 0.787 | 20.00 | 0.035 | 0.90 | 164 | 50 |
| HST028A | — | — | — | 2-3/32 | 2.087 | 53.00 | 0.984 | 25.00 | 0.039 | 1.00 | 164 | 50 |
| HST029A | — | — | — | 2-3/8 | 2.362 | 60.00 | 1.181 | 30.00 | 0.042 | 1.10 | 164 | 50 |
| HST030A | — | — | — | 3-1/4 | 3.150 | 80.00 | 1.575 | 40.00 | 0.046 | 1.20 | 164 | 50 |
| HST031A | — | — | — | 3-15/16 | 3.937 | 100.00 | 1.969 | 50.00 | 0.046 | 1.20 | 98.4 | 30 |

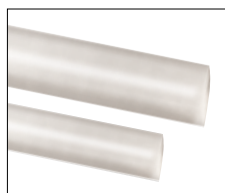
HST CLEAR 2:1 Clear Heat Shrink Tubing

Specifications:

- Material: Crosslinked Polyolefin
- Color: Clear (100% Transparent)
- Operating Temp: -67°F to 221°F (-55°C to 105°C)
- Min. shrink temp: 158°F (70°C)
- Min. full recovery temp: 203°F (95°C)
- Shrink ratio: 2:1

Features:

- RoHS Compliant
- Used in the appliance, automotive and on consumer goods applications
- Commercial grade for general applications where flame-retardancy is not required
- Excellent electrical and physical properties
- Provided in standard roll lengths



| Item No. | Size (In) | As Supplied | | After Recovery | | | | Roll Length | |
|----------|-----------|--------------|--------|--------------------|-------------|-------|------|-------------|-----|
| | | Inside Ø Min | ID Max | Wall Thickness Min | Roll Length | | | | |
| | | In | mm | In | mm | In | mm | ft | m |
| 495883 | 3/64 | 0.047 | 1.20 | 0.024 | 0.60 | 0.013 | 0.33 | 492 | 150 |
| 495884 | 1/16 | 0.063 | 1.60 | 0.031 | 0.80 | 0.014 | 0.36 | 492 | 150 |
| 495885 | 3/32 | 0.094 | 2.40 | 0.047 | 1.20 | 0.017 | 0.44 | 492 | 150 |
| 495886 | 1/8 | 0.126 | 3.20 | 0.063 | 1.60 | 0.017 | 0.44 | 492 | 150 |
| 495887 | 3/16 | 0.189 | 4.80 | 0.094 | 2.40 | 0.022 | 0.56 | 246 | 75 |
| 495888 | 1/4 | 0.252 | 6.40 | 0.126 | 3.20 | 0.022 | 0.56 | 246 | 75 |
| 495889 | 3/8 | 0.374 | 9.50 | 0.189 | 4.80 | 0.022 | 0.56 | 246 | 75 |
| 495890 | 1/2 | 0.500 | 12.7 | 0.252 | 6.40 | 0.026 | 0.65 | 164 | 50 |
| 495891 | 5/8 | 0.630 | 16.0 | 0.315 | 8.00 | 0.027 | 0.69 | 164 | 50 |
| 495892 | 3/4 | 0.748 | 19.0 | 0.374 | 9.50 | 0.031 | 0.80 | 98.4 | 30 |
| 495893 | 1 | 1.000 | 25.4 | 0.500 | 12.7 | 0.035 | 0.90 | 98.4 | 30 |
| 495894 | 1-1/4 | 1.260 | 32.0 | 0.630 | 16.0 | 0.039 | 1.00 | 98.4 | 30 |
| 495895 | 1-1/2 | 1.500 | 38.1 | 0.748 | 19.0 | 0.039 | 1.00 | 98.4 | 30 |

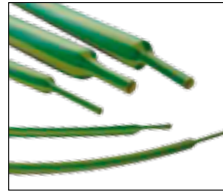


HST YG

2:1 Yellow & Green Striped Heat Shrink Tubing

Specifications:

- Material: Crosslinked Polyolefin
- Color: Yellow and Green Striped
- Operating Temp: -67°F to 275°F (-55°C to 135°C)
- Min. shrink temp: 158°F (70°C)
- Min. full recovery temp: 212°F (100°C)



Features:

- UL Approval: 125°C VW-1 600V File No. E204071
- RoHS Compliant
- Outstanding physical, chemical and electrical properties
- Easy to install and makes identifying ground conductors easier
- Highly flame retardant and UV resistant

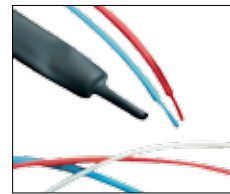
| Item No. | Size (In) | As Supplied | | After Recovery | | | Roll Length | | |
|----------|-----------|--------------|------|----------------|--------------------|-------|-------------|------|-----|
| | | Inside Ø Min | | ID Max | Wall Thickness Min | | ft | m | |
| | | In | mm | In | mm | In | | | mm |
| 495896 | 1/16 | 0.063 | 1.60 | 0.031 | 0.80 | 0.020 | 0.51 | 492 | 150 |
| 495897 | 3/32 | 0.094 | 2.40 | 0.047 | 1.20 | 0.020 | 0.51 | 492 | 150 |
| 495898 | 1/8 | 0.126 | 3.20 | 0.063 | 1.60 | 0.022 | 0.55 | 492 | 150 |
| 495899 | 3/16 | 0.189 | 4.80 | 0.094 | 2.40 | 0.024 | 0.60 | 246 | 75 |
| 495900 | 1/4 | 0.252 | 6.40 | 0.126 | 3.20 | 0.026 | 0.65 | 246 | 75 |
| 495901 | 3/8 | 0.374 | 9.50 | 0.189 | 4.80 | 0.030 | 0.75 | 246 | 75 |
| 495902 | 1/2 | 0.500 | 12.7 | 0.252 | 6.40 | 0.030 | 0.75 | 164 | 50 |
| 495903 | 3/4 | 0.748 | 19.0 | 0.374 | 9.50 | 0.033 | 0.85 | 98.4 | 30 |
| 495904 | 1 | 1.000 | 25.4 | 0.500 | 12.7 | 0.039 | 1.00 | 98.4 | 30 |
| 495905 | 1-1/2 | 1.500 | 38.1 | 0.748 | 19.0 | 0.045 | 1.15 | 98.4 | 30 |

HST 3:1

3:1 Heat Shrink Tubing

Specifications:

- Material: Crosslinked Polyolefin
- Color: See Chart
- Operating Temp: -67°F to 257°F (-55°C to 125°C)
- Min. shrink temp: 158°F (70°C)
- Min. full recovery temp: 212°F (100°C)



Features:

- UL Approval: 125°C VW-1 600V File No. E204071
- RoHS Compliant
- Widely used for electrical insulation
- Flame retardant and highly flexible
- Protects in line components, disconnect terminals and splices
- Variety of colors to code wires, cables, terminals and components

| Item No. | Size | As Supplied | | After Recovery | | | Roll Length | | |
|----------|-------|--------------|------|----------------|--------------------|-------|-------------|------|-----|
| | | Inside Ø Min | | ID Max | Wall Thickness Min | | ft | m | |
| | | In | mm | In | mm | In | | | mm |
| 495906 | 1/16 | 0.059 | 1.50 | 0.020 | 0.50 | 0.018 | 0.45 | 492 | 150 |
| 495907 | 1/8 | 0.118 | 3.00 | 0.039 | 1.00 | 0.022 | 0.55 | 492 | 150 |
| 495908 | 3/16 | 0.177 | 4.50 | 0.059 | 1.50 | 0.024 | 0.60 | 246 | 75 |
| 495909 | 1/4 | 0.236 | 6.00 | 0.079 | 2.00 | 0.026 | 0.65 | 246 | 75 |
| 495910 | 3/8 | 0.354 | 9.00 | 0.118 | 3.00 | 0.030 | 0.75 | 246 | 75 |
| 495911 | 1/2 | 0.472 | 12.0 | 0.157 | 4.00 | 0.031 | 0.80 | 164 | 50 |
| 495912 | 3/4 | 0.709 | 18.0 | 0.236 | 6.00 | 0.035 | 0.90 | 98.4 | 30 |
| 495913 | 1 | 0.945 | 24.0 | 0.315 | 8.00 | 0.043 | 1.10 | 98.4 | 30 |
| 495914 | 1-1/2 | 1.535 | 39.0 | 0.512 | 13.0 | 0.049 | 1.25 | 98.4 | 30 |

HST ADHESIVE

3:1 Adhesive Lined Heat Shrink Tubing

Specifications:

- Material: Crosslinked Adhesive Lined Polyolefin
- Color: See Table
- Operating Temp: -67°F to 257°F (-55°C to 125°C)
- Min. shrink temp: 176°F (80°C)
- Min. full recovery temp: 230°F (110°C)
- Shrink ratio: 3:1

Features:

- UL Approval: 125°C VW-1 600V File No. E204071
- RoHS Compliant
- UV Resistant and flame retardant (with the exception of clear)
- Provides insulation and sealing on applications like wire splices and harnesses
- Comes in a variety of colors to code wires, cables, terminals and components
- Provided in standard roll lengths and pre-cut length in packs



Standard Roll



| Item No. | Size | As Supplied | | After Recovery | | | Roll Length | | |
|----------|-------|--------------|-------|----------------|--------------------|-------|-------------|------|-----|
| | | Inside Ø Min | | ID Max | Wall Thickness Min | | ft | m | |
| | | In | mm | In | mm | In | | | mm |
| 495987 | 1/8 | 0.118 | 3.00 | 0.039 | 1.00 | 0.039 | 1.00 | 492 | 150 |
| 495988 | 3/16 | 0.189 | 4.80 | 0.059 | 1.50 | 0.039 | 1.00 | 246 | 75 |
| 495989 | 1/4 | 0.236 | 6.00 | 0.079 | 2.00 | 0.039 | 1.00 | 246 | 75 |
| 495990 | 3/8 | 0.354 | 9.00 | 0.118 | 3.00 | 0.055 | 1.40 | 164 | 50 |
| 495991 | 1/2 | 0.472 | 12.00 | 0.157 | 4.00 | 0.063 | 1.60 | 98.4 | 30 |
| 495992 | 3/4 | 0.748 | 19.00 | 0.236 | 6.00 | 0.085 | 2.15 | 98.4 | 30 |
| 495993 | 1 | 0.945 | 24.00 | 0.315 | 8.00 | 0.094 | 2.40 | 98.4 | 30 |
| 495994 | 1-1/2 | 1.575 | 40.00 | 0.512 | 13.0 | 0.094 | 2.40 | 98.4 | 30 |

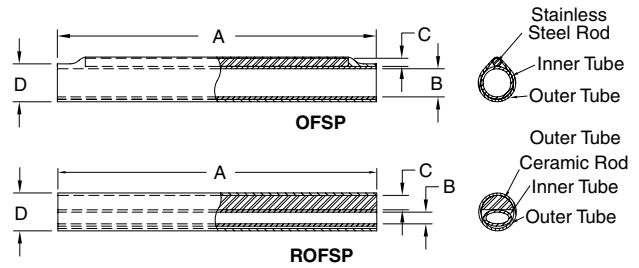
Pre-Cut 4 Foot (1.22m) Lengths

| Item No. | Size | As Supplied | | After Recovery | | | Standard Length | | Bulk Pack Qty | |
|----------|-------|--------------|-------|----------------|--------------------|-------|-----------------|---|---------------|-----|
| | | Inside Ø Min | | ID Max | Wall Thickness Min | | ft | m | | |
| | | In | mm | In | mm | In | | | | mm |
| 495995 | 1/8 | 0.118 | 3.00 | 0.039 | 1.00 | 0.039 | 1.00 | 4 | 1.22 | 100 |
| 495996 | 3/16 | 0.189 | 4.80 | 0.059 | 1.50 | 0.039 | 1.00 | 4 | 1.22 | 50 |
| 495997 | 1/4 | 0.236 | 6.00 | 0.079 | 2.00 | 0.039 | 1.00 | 4 | 1.22 | 50 |
| 495998 | 3/8 | 0.354 | 9.00 | 0.118 | 3.00 | 0.055 | 1.40 | 4 | 1.22 | 25 |
| 495999 | 1/2 | 0.472 | 12.00 | 0.157 | 4.00 | 0.063 | 1.60 | 4 | 1.22 | 10 |
| 496000 | 3/4 | 0.748 | 19.00 | 0.236 | 6.00 | 0.085 | 2.15 | 4 | 1.22 | 10 |
| 496001 | 1 | 0.945 | 24.00 | 0.315 | 8.00 | 0.094 | 2.40 | 4 | 1.22 | 5 |
| 496002 | 1-1/2 | 1.575 | 40.00 | 0.512 | 13.0 | 0.094 | 2.40 | 4 | 1.22 | 5 |



FIBER SPLICE ACCESSORIES

OFSP Optical Fiber Splice Protector



Specifications:

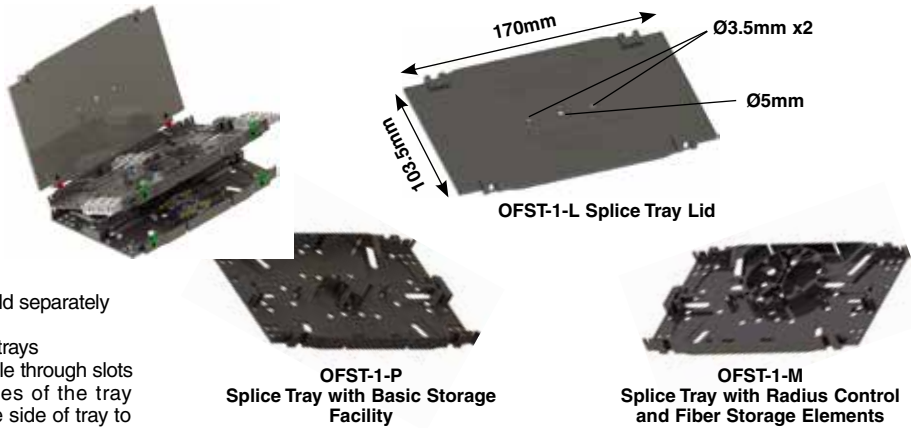
- Material: Outer Tube: Heat Shrink 3:1 Ratio Polyolefin
Inner Tube: PE Copolymer Adhesive
- Color: Clear
- ROD:OFSP-SS; ROFSP- Ceramic

Features:

- Provides excellent protection for fiber optic splices
- The hot-melt inner tube bonds to the fiber and the heat shrinkable outer tube to encapsulate the fusion splice joint
- Provides vibration damping and an environmental seal, protecting fibers from damage and contaminants
- The stainless steel/ceramic strength member provides additional rigidity
- ROFSP is for ribbon or flat fiber splice protection
- OFSP-08 is small for space-saving miniature splice protection

| Item No. | A Nominal Sleeve Length | | B Inner Tube Ø | | C Nominal Rod Ø | | D Recovered Ø | | Pack Qty. | Bulk Pack Qty. |
|-------------|-------------------------|------|----------------|-----------|-----------------|-----------|---------------|-----------|-----------|----------------|
| | In | mm | In | mm | In | mm | In | mm | | |
| OFSP-10-25 | 0.984 | 25.0 | 0.059 | 1.5 | 0.039 | 1.0 | 0.094 | 2.4 | 1 | 100 |
| OFSP-10-30 | 1.181 | 30.0 | 0.059 | 1.5 | 0.039 | 1.0 | 0.094 | 2.4 | 1 | 100 |
| OFSP-10-35 | 1.378 | 35.0 | 0.059 | 1.5 | 0.039 | 1.0 | 0.094 | 2.4 | 1 | 100 |
| OFSP-10-40 | 1.575 | 40.0 | 0.059 | 1.5 | 0.039 | 1.0 | 0.094 | 2.4 | 1 | 100 |
| OFSP-10-45 | 1.772 | 45.0 | 0.059 | 1.5 | 0.039 | 1.0 | 0.094 | 2.4 | 1 | 100 |
| OFSP-10-61 | 2.402 | 61.0 | 0.059 | 1.5 | 0.039 | 1.0 | 0.094 | 2.4 | 1 | 100 |
| OFSP-15-40 | 1.575 | 40.0 | 0.059 | 1.5 | 0.059 | 1.5 | 0.110 | 2.8 | 1 | 100 |
| OFSP-15-61 | 2.402 | 61.0 | 0.059 | 1.5 | 0.059 | 1.5 | 0.110 | 2.8 | 1 | 100 |
| OFSP-08-25 | 0.984 | 25.0 | 0.059 | 1.5 | 0.031 | 0.8 | 0.063 | 1.6 | 1 | 100 |
| OFSP-08-40 | 1.575 | 40.0 | 0.020 | 0.5 | 0.031 | 0.8 | 0.063 | 1.6 | 1 | 100 |
| ROFSP-40-40 | 1.575 | 40.0 | 0.142 x 0.039 | 3.6 x 1.0 | 0.157 x 0.071 | 4.0 x 1.8 | 0.197 x 0.118 | 5.0 x 3.0 | 1 | 100 |

OFST Fiber Splice Tray System



Specifications:

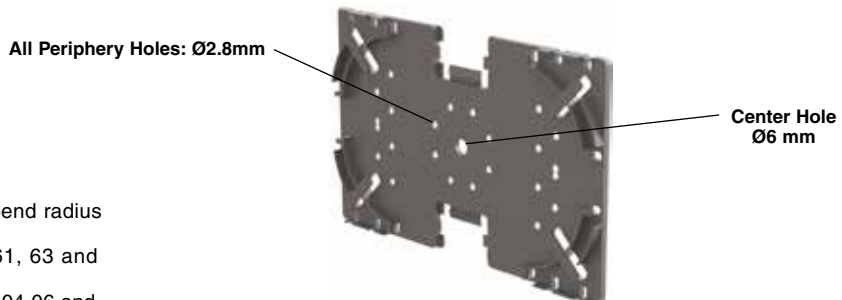
- Color: See Chart

Features:

- Lid, trays, and hinges are sold separately or in a kit: OFST-A-P-1
- Stackable to any number of trays
- Inter-tray fiber routing possible through slots along one of the long sides of the tray
- Color coded hinges indicate side of tray to open from. Part numbers are OFSTH-1-RED and OFSTH-1-GRN.
- Can be used with OFSH splice holders, OFSP splice protectors and OFBLT bend limiting tubing
- 3 mounting holes go through the lid and trays

| Item No. | Color | Description | Bulk Pack Qty. |
|-------------|-------|--|----------------|
| OFST-1-L | Black | Splice Tray Lid | 10 |
| OFST-1-M | Black | Splice Tray Managed with Radius Control & Dark Fiber Storage | 10 |
| OFST-1-P | Black | Splice Tray Plain with Basic Storage Facility | 10 |
| OFST-A-P-1 | Black | 1 x OFST-1-L, 1 x OFST-1-P, 2 x OFSTH-1-RED, 2 x OFSTH-1-GRN | 10 |
| OFSTH-1-GRN | Green | OF Splice Tray Hinge | 20 |
| OFSTH-1-RED | Red | OF Splice Tray Hinge | 20 |

EFA04-25-001 Splice Tray



Specifications:

- Material: UL94 V-0 Nylon 6
- Color: Black

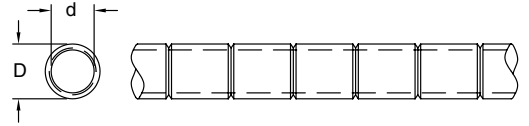
Features:

- Molded-in features maintain bend radius at 30mm
- Accepts Fiber Clips EFA04-61, 63 and 64-001
- Accepts 16-way Fiber Clip EFA04-06 and 08-001 broken into a 4-way segment for holding splicing components
- An Egide/Richco product

| Item No. | L x W | | Thickness | | Bulk Pack Qty. |
|--------------|-------|-------|-----------|------|----------------|
| | In | mm | In | mm | |
| EFA04-25-001 | 5.197 | 3.228 | 132.0 | 82.0 | 50 |



OFBLT
Optical Fiber Bend Limiting Tubing



Specifications:

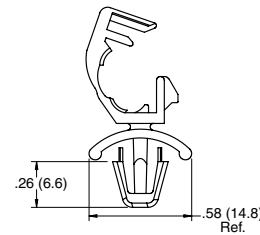
- Material: See Chart
- Color: See Chart

Features:

- Optical Fiber Bend-Limiting Tubing offers the ultimate protection to fibers, eliminating problems such as crushing, kinking, and micro bending, while supplying a self-managing solution for routing of fiber
- Provides superior crush protection against micro fiber bends over conventional corrugated tubing
- Limits the bend in a fiber by controlling radius to a minimum of 30mm
- Has a smooth inner bore for ease of use and elimination of micro-bending
- Suitable for blown fiber applications over short distance and for curbside FTTH/FTTB applications

| Item No. | | Style | D | | d | | Bulk Pack Qty. |
|---------------------|--------------------|-----------|-------|------|-------|-----|----------------|
| | | | In | mm | In | mm | |
| White Polypropylene | Black UL94 V-0 PBT | | | | | | |
| OFBLT-3.1-05-PP | OFBLT-31-05V0 | Standard | 0.199 | 5.05 | 0.122 | 3.1 | 100 Meters |
| OFBLT-42-635PP | OFBLT-42-635V0 | Standard | 0.250 | 6.35 | 0.165 | 4.1 | 100 Meters |
| OFBLTP-42-635PP | OFBLTP-42-635V0 | Pull-Cord | 0.250 | 6.35 | 0.165 | 4.1 | 100 Meters |

OFBLT-C
OFBLT Tubing Clip



Specifications:

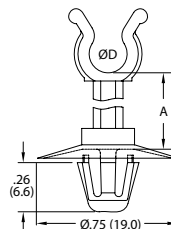
- Material: See Chart
- Color: Natural

Features:

- Holds the 5mm OFBLT tube (see above) or up to a 4.3mm rod
- Clamp is releasable for repairs

| Item No. | | Max Bundle Ø | | Mounting Hole Ø | | Panel Thickness | | Bulk Pack Qty. |
|--------------------|--------------------|--------------|-----|-----------------|-----|-----------------|-----------|----------------|
| | | In | mm | In | mm | In | mm | |
| UL94 V-2 Nylon 6/6 | UL94 V-0 Nylon 6/6 | | | | | | | |
| OFBLT-C1-5-01 | OFBLT-C1-5-19 | 0.170 | 4.3 | 0.250 | 6.4 | 0.031 - 0.078 | 0.8 - 2.0 | 1000 |

TPCE
Tube Clip



Specifications:

- Material: See Chart
- Color: Natural

Features:

- Holds a 5mm diameter tube or pipe
- Excellent for above board routing requirements
- Cupped base provides stability and covers the entire hole

| Item No. | | A | | D Max Bundle Ø | | Mounting Hole Ø | | Panel Thickness | | Bulk Pack Qty. |
|--------------------|--------------------|-------|------|----------------|-----|-----------------|-----|-----------------|-----------|----------------|
| | | In | mm | In | mm | In | mm | In | mm | |
| UL94 V-2 Nylon 6/6 | UL94 V-0 Nylon 6/6 | | | | | | | | | |
| TPCE5-51-4M-01 | TPCE5-51-4M-19 | 0.157 | 4.0 | 0.200 | 5.1 | 0.256 | 6.5 | 0.031 - 0.063 | 0.8 - 1.6 | 1000 |
| TPCE5-51-6M-01 | TPCE5-51-6M-19 | 0.236 | 6.0 | 0.200 | 5.1 | 0.256 | 6.5 | 0.031 - 0.063 | 0.8 - 1.6 | 1000 |
| TPCE5-51-8M-01 | TPCE5-51-8M-19 | 0.315 | 8.0 | 0.200 | 5.1 | 0.256 | 6.5 | 0.031 - 0.063 | 0.8 - 1.6 | 1000 |
| TPCE5-51-10M-01 | TPCE5-51-10M-19 | 0.394 | 10.0 | 0.200 | 5.1 | 0.256 | 6.5 | 0.031 - 0.063 | 0.8 - 1.6 | 1000 |

OFTGSP
OFBLT Tubing Saddle

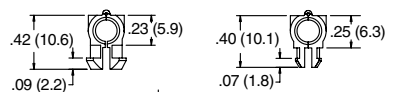


Figure 1

Figure 2



Recommended Mounting Hole



Recommended Mounting Holes



Specifications:

- Material: UL94 V-0 Nylon 6/6
- Color: Natural

Features:

- Holds the 5mm OFBLT (see above)
- The saddle is placed over the tubing and closed down to engage on the external grooves of the tube
- Secure attachment is completed by pressing the retaining feet through the location holes
- OFTGSPP-2 has two sets of mounting prongs requiring 2 holes

| Item No. | Figure | Mounting Hole Ø | | Panel Thickness | | Bulk Pack Qty. |
|----------------|--------|-----------------|-----|-----------------|-----|----------------|
| | | In | mm | In | mm | |
| OFTGSP-1-05-19 | 1 | 0.250 | 6.4 | 0.095 | 2.4 | 100 |
| OFTGSP-2-05-19 | 2 | 0.197 | 5.0 | 0.071 | 1.8 | 100 |

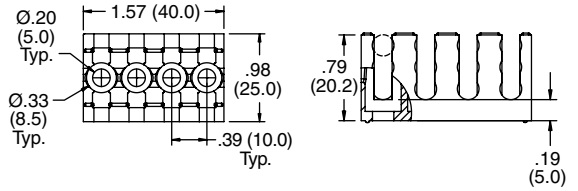


FIBER BEND LIMITING TUBING & SPLICE HOLDERS

OFSMB - OFBLT Slotted Multi Bracket

Specifications:

- Material: UL94 V-0 Glass-Filled Nylon
- Color: Black



Features:

- For use with 5mm OFBLT Tubing
- Mounts with #10 (M5) screws
- Optical Fiber Slotted Multi-Brackets are for use at distribution points where orderly fiber management, protection and strain relief is required
- An additional security feature allows fitting of a cable tie around OFSMBs which prevents removal of any retained tubes
- OFBLT retention: >70N
- Holds a maximum of 12 tubes

| Item No. | Bulk Pack Qty. |
|----------------|----------------|
| OFSMB-4-05GFBK | 10 |

OFSH-T Splice Holder

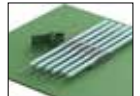
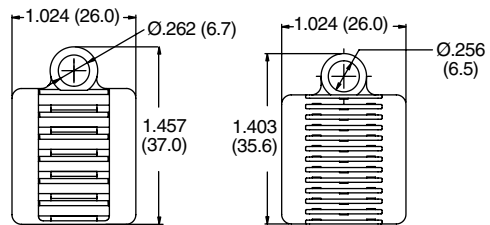
Specifications:

- Material: See Chart
- Color: Black



Features:

- OFSH-T-6 holds up to 6 x 3mm fiber or components, i.e. couplers and splice protectors
- OFSH-T-12 holds up to 12 crimp splice protectors
- Splice Holders can be used with OFST Series Splice Trays.

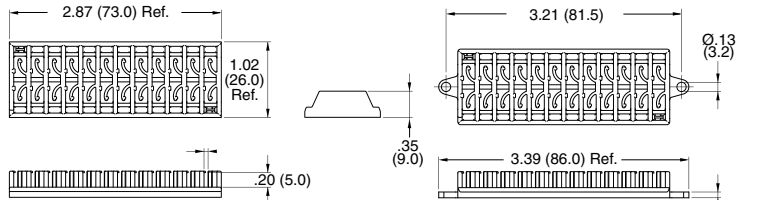


| Item No. | Figure | Material | Ø Component | | No. of Slots | Bulk Pack Qty. |
|-----------------|--------|------------------------|---------------|-----------|--------------|----------------|
| | | | In | mm | | |
| OFSH-T-6-GFBLK | 1 | Glass Filled Nylon 6/6 | 0.118 | 3.0 | 6 | 100 |
| OFSH-T-12-01BLK | 2 | Nylon 6/6 | 0.039 - 0.047 | 1.0 - 1.2 | 6 | 100 |
| OFSH-T-12-19BLK | 2 | Nylon 6/6 | 0.039 - 0.047 | 1.0 - 1.2 | 12 | 100 |

OFSH2 Splice Holder

Specifications:

- Material: UL94 V-0 Nylon 6/6
- Color: Black



Features:

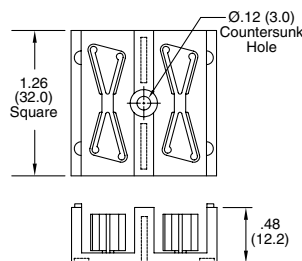
- Holds up to 24 components/splice protectors
- Flexible wings grip components up to .06 (1.6) in diameter
- Low profile to save space
- Two styles: one for mounting with an adhesive pad and one for mounting with a #4 or M3 screw
- Each slot holds up to two components

| Item No. | Mounting Method | Ø Component | | Figure | Bulk Pack Qty. |
|------------|-----------------|-------------|-----------|--------|----------------|
| | | In | mm | | |
| OFSH2-24-1 | Adhesive | Up to 0.060 | Up to 1.6 | 1 | 50 |
| OFSH2-24-2 | No Adhesive | Up to 0.060 | Up to 1.6 | 1 | 50 |
| OFSH2-24-3 | #4 or M3 Screws | Up to 0.060 | Up to 1.6 | 2 | 50 |

OFSH-4 Splice Holder

Specifications:

- Material: See Chart
- Color: Natural



Features:

- Holds twelve 2.7mm splices or four 4.2mm splices
- Fastens with either an adhesive pad provided, or with a #4 screw or rivet.
- Stackable

| Item No. | | Ø Component | | No. of Positions | Bulk Pack Qty. |
|--------------------|--------------------|-------------|-----|------------------|----------------|
| UL94 V-2 Nylon 6/6 | UL94 V-0 Nylon 6/6 | mm | | | |
| OFSH-4-1-01LA | OFSH-4-1-19LA | 2.7 | 4.2 | 12 | 50 |
| OFSH-4-1-01LA | OFSH-4-1-19LA | 2.7 | 4.2 | 4 | 50 |



OFEB / OFHB
Fiber Holder

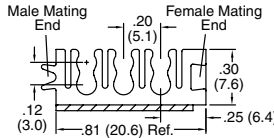


Figure 1

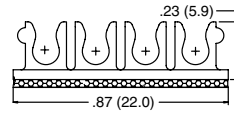


Figure 2

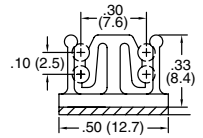


Figure 3

Specifications:

- Material: UL94 V-0 Nylon 6/6
- Color: Natural

Features:

- Quickly mounted with adhesive base
- OFEB has side brackets that connect with each other to provide for additional cables



| Item No. | Figure | Cable Ø | | No. of Slots | No. of Cables | Depth | | Bulk Pack Qty. |
|------------------|--------|---------|-----|--------------|---------------|-------|-----|----------------|
| | | In | mm | | | In | mm | |
| OFEB-3-19 | 1 | 0.118 | 3.0 | 3 | 6 | 0.300 | 7.6 | 1000 |
| OFHB3-4-19A-RT | 2 | 0.118 | 3.0 | 4 | 4 | 0.375 | 9.5 | 1000 |
| OFHB2-4-A1-RT-19 | 3 | 0.079 | 2.0 | 2 | 4 | 0.375 | 9.5 | 1000 |

OFB-BH / OFB3P
Fiber Holder

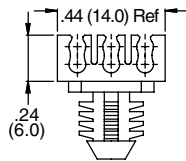
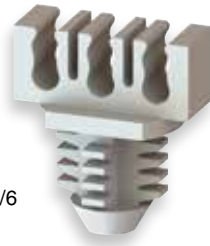


Figure 1

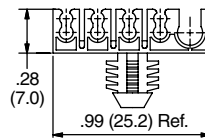


Figure 2

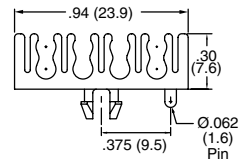


Figure 3

Specifications:

- Material: UL94 V-0 Nylon 6/6
- Color: Natural

Features:

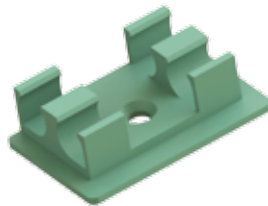
- Holds multiple cable fibers



Recommended Mounting Holes

| Item No. | Figure | Hole Ø | | Panel Thickness | | Cable Ø | | No. of Slots | No. of Cables | Depth | | Bulk Pack Qty. |
|-------------|--------|--------|-----|-----------------|-----|----------------------|--------------|--------------|---------------|-------|-----|----------------|
| | | In | mm | In | mm | In | mm | | | | | |
| OFB-BH-6-19 | 1 | 0.312 | 7.9 | 0.250 | 6.4 | 0.079 | 2.0 | 3 | 6 | 0.197 | 5.0 | 1000 |
| OFB-BH-9-19 | 2 | 0.312 | 7.9 | 0.250 | 6.4 | 8 - 0.086, 1 - 0.158 | 8-2.2, 1-4.0 | 5 | 9 | 0.236 | 6.0 | 1000 |
| OFB3P-4-19 | 3 | 0.187 | 4.7 | 0.064 | 1.6 | 0.118 | 3.0 | 4 | 8 | 0.200 | 5.1 | 1000 |

EFA04-6X
Fiber Clip

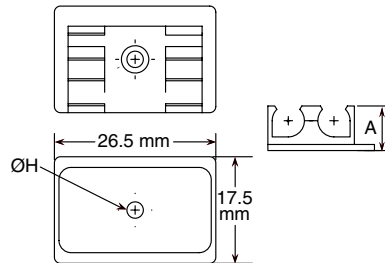


Specifications:

- Material: UL94 V-0 Nylon 6
- Color: See Chart

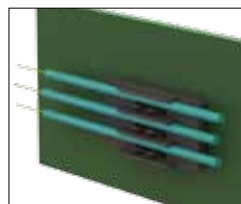
Features:

- Holds 2 components parallel
- Available to hold 3 different diameters; 4.5mm, 5.5mm, 6mm
- Designed for use in the Splice Tray EFA04-25-001
- Can be mounted by screw, rivet, or with adhesive pad
- EFA04-61-001 has anti-rotation pins to securely mount with screw or rivet



| Clip Only | Item No. | Clip & Adhesive Pad | Color | Cable Ø | | No. of Slots | A | | H Ø | | Recommended Mounting Screw | Bulk Pack Qty. |
|--------------|--------------|---------------------|--------|---------|-----|--------------|-------|------|-------|-----|----------------------------|----------------|
| | | | | In | mm | | In | mm | In | mm | | |
| EFA04-61-001 | EFA04-61-ASS | | Red | 0.236 | 6.0 | 2 | 0.315 | 8.0 | 0.126 | 3.2 | #4, #5 or M3 | 100 |
| EFA04-63-001 | EFA04-63-ASS | | Green | 0.216 | 5.5 | 2 | 0.289 | 7.33 | 0.106 | 2.7 | #3 or M2.5 | 100 |
| EFA04-64-001 | EFA04-64-ASS | | Yellow | 0.177 | 4.5 | 2 | 0.289 | 7.33 | 0.106 | 2.7 | #3 or M2.5 | 100 |

EFA04-02
Fiber Clip

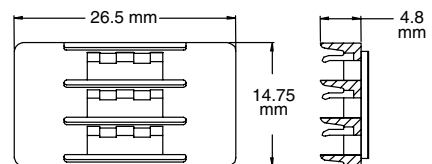


Specifications:

- Material: UL94 V-0 Nylon 6
- Color: Black

Features:

- Holds three 3mm diameter components
- Adhesive pad for easy application



| Item No. | Cable Ø | | No. of Slots | Contents | Bulk Pack Qty. |
|--------------|---------|-----|--------------|------------------------|----------------|
| | In | mm | | | |
| EFA04-02-ASS | 0.118 | 3.0 | 3 | Clip with Adhesive Pad | 100 |



FIBER CLIPS & GUIDES

EFA Fiber Clip

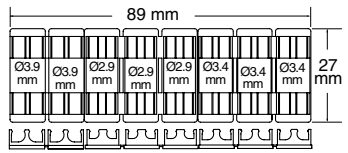
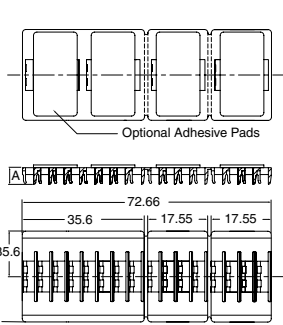
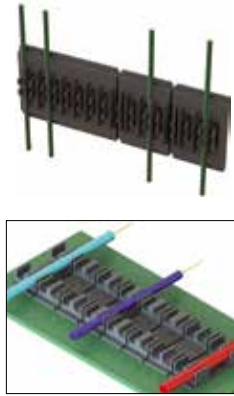


Figure 2

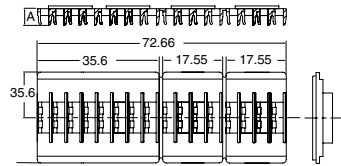


Figure 1

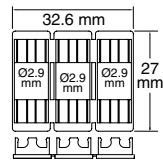


Figure 3

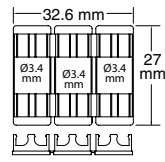


Figure 4

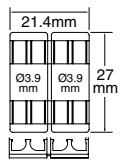


Figure 5

Specifications:

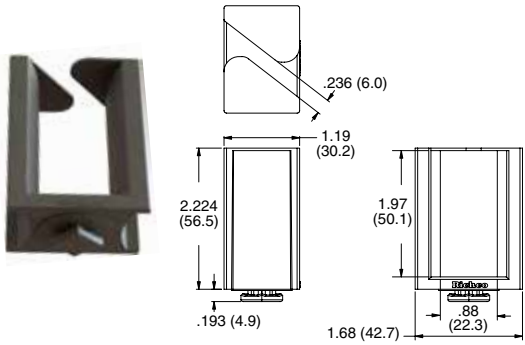
- Material: UL94 V-0 Nylon 6
- Color: See Chart

Features:

- EFA04-06, EFA04-08, and EFA04-18 can be broken apart to form individual clips
- Various mounting options are available
- An Egide/Richco product

| Item No. | | Cable Ø | | | | | Bulk Pack Qty. |
|--------------|---------------------------|---------|-------|------------------|---------------|--------------|----------------|
| Clip Only | Clip with Adhesive Pad(s) | Figure | Color | In | mm | No. of Slots | |
| EFA04-06-001 | EFA04-06-ASS | 1 | Black | 0.118 | 3.0 | 16 | 100 |
| EFA04-08-001 | EFA04-08-ASS | 1 | Blue | 0.079 | 2.0 | 16 | 100 |
| EFA04-18-001 | EFA04-18-ASS | 2 | Black | .154, .134, .114 | 3.9, 3.4, 2.9 | 4, 6, 6 = 16 | 100 |
| EFA04-71-001 | EFA04-71-P01 | 3 | Black | 0.114 | 2.9 | 6 | 100 |
| EFA04-71-002 | EFA04-71-P02 | 4 | Black | 0.134 | 3.4 | 6 | 100 |
| EFA04-71-003 | EFA04-71-P03 | 5 | Black | 0.154 | 3.9 | 4 | 100 |

OFRB Fiber Rack Bracket



Specifications:

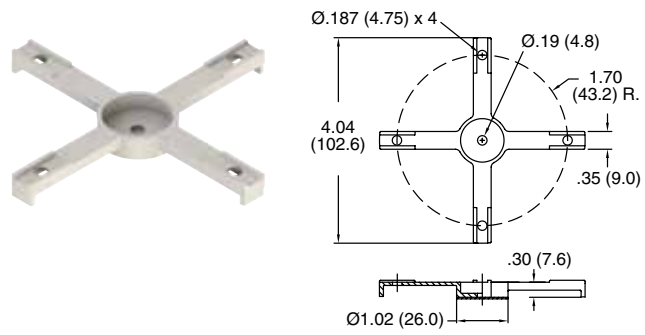
- Material: UL94 V-0 Nylon 6/6
- Color: Black

Features:

- Mounts into a standard 19" rack with a quarter turn
- Removable with a quarter turn
- No stress is applied to the fiber upon entry

| Item No. | Square Mounting Hole | | Panel Thickness | | Bulk Pack Qty. |
|----------|----------------------|-------------|-----------------|-----------|----------------|
| | In | mm | In | mm | |
| OFRB-1BK | 0.465 x 0.465 | 11.8 x 11.8 | 0.063 - 0.079 | 1.6 - 2.0 | 100 |
| OFRB-2BK | 0.374 x 0.374 | 9.5 x 9.5 | 0.063 - 0.079 | 1.6 - 2.0 | 100 |

OFSB Fiber Support Base



Specifications:

- Material: See Chart
- Color: Natural

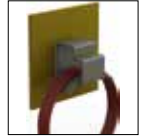
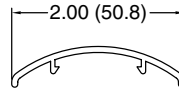
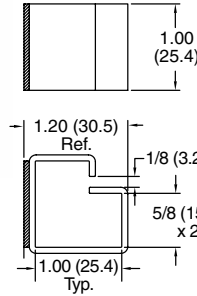
Features:

- Constructs a path for spooling fiber optic cables
 - Designed for use in fiber optic patch panel applications
 - Center hole is for mounting the base with a #8 screw or SR-5XXX rivet
 - Any Essentra wire routing device that is designed to snap into a .187 hole and a .062" panel can be mounted to this base.
- Popular options are OFNS, STL, WS and LWS series

| Item No. | | Mounting Method | Bulk Pack Qty. |
|--------------------|--------------------|---------------------------|----------------|
| UL94 V-2 Nylon 6/6 | UL94 V-0 Nylon 6/6 | | |
| OFSB-4-85-01A | OFSB-4-85-19A | Adhesive | 100 |
| OFSB-4-85-01 | OFSB-4-85-19 | #8 Screw of SR-5XXX Rivet | 100 |



**OFCC / OFCG
Fiber Coiling Clip**



Specifications:

- Material: UL94 V-0 PVC
- Color: Black

Features:

- OFCG snaps onto OFCC to form a clip with a smooth, curved surface to accommodate fiber optic bundles
- OFCC and OFCG sold separately
- Limits the bend radius of the fiber

| Item No. | Figure | Bulk Pack Qty. |
|-------------|--------|----------------|
| OFCC-16A-RT | 1 | 100 |
| OCFG-16 | 2 | 100 |

**EFA04
Fiber Guide**

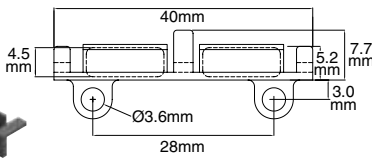


Figure 1

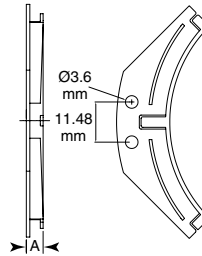


Figure 2

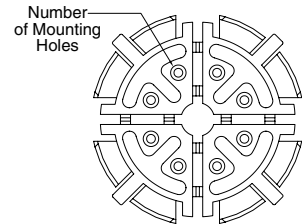


Figure 3

Specifications:

- Material: UL94 V-0 Nylon 6
- Color: Black

Features:

- Provide fiber storage as well as bend control
- Various mounting options are available
- The fiber reel screw mount holes are Ø2.8mm with a 90° countersink of Ø4.6mm. Holes are spaced evenly on a 30mm diameter
- Reel can be stacked or mounted above board using accessories below

| Item No. | | | | Height | | No. of Mounting Holes | Max Fiber Storage | Bulk Pack Qty. |
|--------------|----------------------------|-----------------------------|--------|---|----|-----------------------|----------------------------|----------------|
| Guide Only | Guide with Adhesive Pad(s) | Guide with SRHR-3535 Rivets | Figure | In | mm | | | |
| EFA04-60-001 | EFA04-60-P01 | EFA04-60-R01 | 1 | Straight | | 2 | — | 100 |
| EFA04-34-001 | EFA04-34-P01 | EFA04-34-R01 | 2 | 30 mm Radius Corner Guide | | 2 | — | 100 |
| EFA04-34-010 | EFA04-34-P10 | EFA04-34-R10 | 2 | 30 mm Radius Corner Guide | | 2 | — | 100 |
| EFA04-34-004 | EFA04-34-P04 | EFA04-34-R04 | 2 | 30 mm Radius Corner Guide | | 2 | — | 100 |
| EFA04-34-002 | EFA04-34-P02 | EFA04-34-R02 | 2 | 35 mm Radius Corner Guide | | 2 | — | 100 |
| EFA04-34-005 | EFA04-34-P05 | EFA04-34-R05 | 2 | 35 mm Radius Corner Guide | | 2 | — | 100 |
| EFA04-34-003 | EFA04-34-P03 | EFA04-34-R03 | 2 | 40 mm Radius Corner Guide | | 2 | — | 100 |
| EFA04-34-006 | EFA04-34-P06 | EFA04-34-R06 | 2 | 40 mm Radius Corner Guide | | 2 | — | 100 |
| EFA04-34-007 | EFA04-34-P07 | EFA04-34-R07 | 2 | 30-37 mm Radius Ribbon Fiber Corner Guide | | 2 | — | 100 |
| EFA04-04-001 | EFA04-04-ASS | — | 3 | 25 mm Radius Fiber Reel | | 8 | 2.5 m of 900 Micron Fiber | 100 |
| EFA04-21-001 | EFA04-21-ASS | — | 3 | 25 mm Radius Fiber Reel | | 8 | 4.5 m of 900 Micron Fiber | 100 |
| EFA04-10-001 | EFA04-10-ASS | — | 3 | 30 mm Radius Fiber Reel | | 8 | 3.0 m of 900 Micron Fiber | 100 |
| EFA04-14-001 | EFA04-14-ASS | — | 3 | 30 mm Radius Fiber Reel | | 8 | 9.0 m of 900 Micron Fiber | 100 |
| EFA04-76-001 | EFA04-76-ASS | — | 3 | 35 mm Radius Fiber Reel | | 8 | 15.0 m of 900 Micron Fiber | 100 |
| EFA04-23-001 | EFA04-23-ASS | — | 3 | 40 mm Radius Fiber Reel | | 4 | 7.0 m of 900 Micron Fiber | 100 |

**EFA04-53 / EFA04-27
Fiber Reel Stacking
Pillar and Standoff**

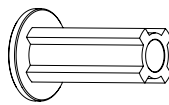
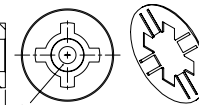
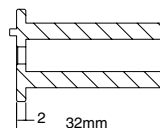


Figure 1



Specifications:

- Material: UL94 V-0 Nylon 6/6
- Color: Black

Features:

- EFA04-53-ASS is used to stack multiple EFA04 fiber reels. Once the desired number of reels are stacked, they are retained with an included spring clip
- EFA04-27-ASS is used to space the EFA04 fiber reel off the PC Board. Top of the standoff snaps into holes in the fiber reel
- Mounted from the bottom of the board with included rivet

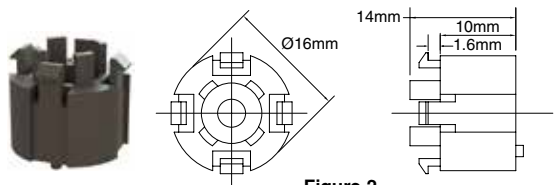


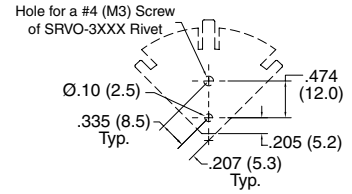
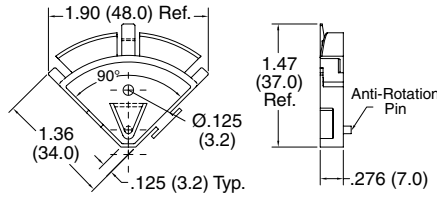
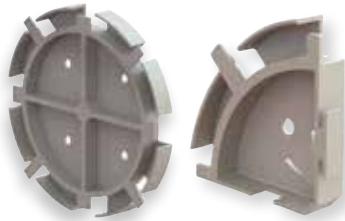
Figure 2

| Item No. | Figure | Description | Bulk Pack Qty. |
|--------------|--------|----------------------------|----------------|
| EFA04-53-ASS | 1 | Fiber Reel Stacking Pillar | 100 |
| EFA04-27-ASS | 2 | Fiber Reel Standoff | 100 |



FIBER GUIDES & STORAGE

OFS 90° Fiber Segment, 30mm Radius



Recommended Mounting Holes

Specifications:

- Material: UL94 V-0 Nylon 6/6
- Color: Natural

Features:

- Provides a 90° bend control radius
- Assemble two pieces for bend control around a 180° turn
- Assemble four pieces for excess fiber spooling at 30mm radius
- In a four-piece assembled mode, stores approximately 60m of 900 micron fiber
- Mounts with a #4 (M3) screw or SRVO-30XX snap rivet

| Item No. | Bulk Pack Qty. |
|-----------|----------------|
| OFS90-30R | 100 |

OFFG / OFFGSP Flexible Fiber Guide System

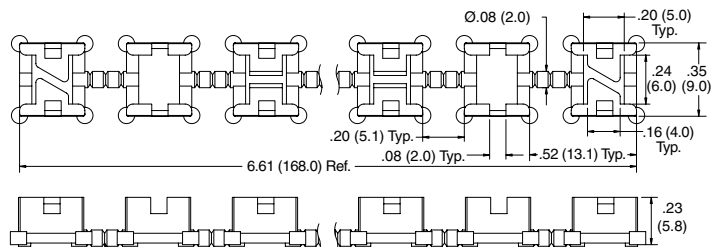


Figure 1

Specifications:

- Material: UL94 V-0 Nylon 6/6
- Color: Black

Features:

- Fully modular, flexible system giving complete fiber management and protection
- Unique spine allows the guide to be oriented in all planes
- For use with 250 and 900 micron fiber
- Fiber can enter and exit at any point, without risk of fiber snagging or kinking
- Angled and straight lugs located along the guide prevent the fiber from springing out
- 25mm maximum bend radius when flexed
- Guide can be cut to various lengths at flexible link sections
- Two types of support posts; OFFGSP-F for mounting flush to the panel, and OFFGSP-R that raises the guide 5, 10 or 16mm
- Guide snaps easily into the support posts

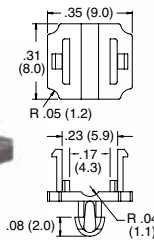


Figure 2

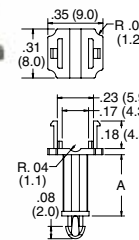
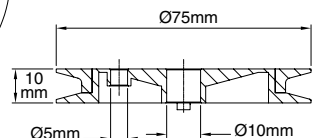
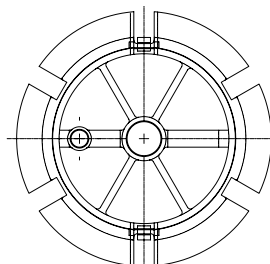


Figure 3



| Item No. | Figure | Description | Mounting Hole Ø | | Panel Thickness | | A | | Bulk Pack Qty. |
|-----------------|--------|--------------------------|-----------------|-----|-----------------|-----|-------|------|----------------|
| | | | In | mm | In | mm | In | mm | |
| OFFG-165M-19-BK | 1 | Fiber Guide | — | — | — | — | — | — | 100 |
| OFFGSP-F-19-BK | 2 | Flat Fiber Guide Support | 0.098 | 2.5 | 0.063 | 1.6 | — | — | 100 |
| OFFGSP-R-05-BK | 3 | Fiber Guide Spacer | 0.098 | 2.5 | 0.063 | 1.6 | 0.200 | 5.0 | 100 |
| OFFGSP-R-10-BK | 3 | Fiber Guide Spacer | 0.098 | 2.5 | 0.063 | 1.6 | 0.390 | 10.0 | 100 |
| OFFGSP-R-16-BK | 3 | Fiber Guide Spacer | 0.098 | 2.5 | 0.063 | 1.6 | 0.630 | 16.0 | 100 |

EFA04-67-ASS Two Piece Fiber Winding



Specifications:

- Material: UL94 V-0 Nylon 6/6
- Color: Black

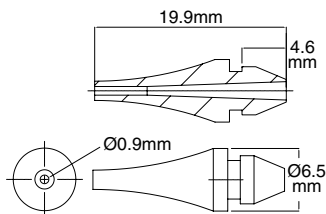
Features:

- Wound fiber is taped to maintain bend radius and provide identification (tape not supplied)
- Two-part reel is then disassembled for easy fiber removal
- Stores up to 8m of 900 micron fiber at a 30mm radius
- Reusable

| Item No. | Bulk Pack Qty. |
|---------------|----------------|
| EFA-04-67-ASS | 50 |



EFA70-07
900 Micron Strain Relief Boot



Specifications:

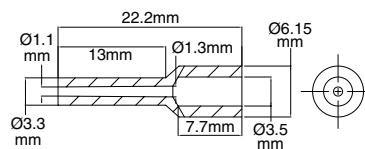
- Material: TPE
- Color: Black

Features:

- Provides added protection to 900 micron fiber while routing through a hole
- Limits the angle of the fiber preventing signal loss

| Item No. | Hole Ø | | Panel Thickness | | Bulk Pack Qty. |
|--------------|--------|-----|-----------------|-----|----------------|
| | In | mm | In | mm | |
| EFA70-07-001 | 0.157 | 4.0 | 0.063 | 1.6 | 500 |

EFA70-01
900 Micron Transition Boot



Specifications:

- Material: TPE
- Color: Black

Features:

- Transitions a 3mm jacketed fiber to a 900 micron fiber
- Limits the bend of the fiber, preventing signal loss

| Item No. | Bulk Pack Qty. |
|--------------|----------------|
| EFA70-01-001 | 500 |

EFA52
Quick Panel Mount Strain Relief Gland Kit

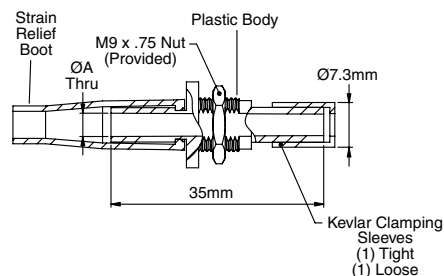


Specifications:

- Material: UL94 V-0 Nylon 6
- Color: Black

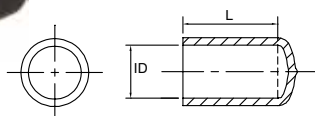
Features:

- Acts as a cable gland for jacketed fiber, preventing the cable from being pulled out of the device
- The plastic body mounts directly on the panel, and the jacketed cable is passed through the center hole
- On the inside of the panel, the cable's Kevlar strands are clamped to the plastic body using one of two clamping sleeves (whichever is appropriate). It is secured in the panel with a mounting bolt
- On the outside of the panel, a flexible boot is attached to the plastic body, providing control over the bend-radius of the cable exiting the strain-relief assembly



| Item No. | Jacketed Fiber Ø | | A | | Bulk Pack Qty. |
|--------------|------------------|-----|-------|-----|----------------|
| | In | mm | In | mm | |
| EFA52-02-ASS | 0.118 | 3.0 | 0.138 | 3.5 | 250 |
| EFA52-05-ASS | 0.079 | 2.0 | 0.098 | 2.5 | 250 |

EFA02-43
Connector Adapter Dust Cap



Specifications:

- Material: PVC
- Color: Black

Features:

- Provides environmental protection for SMA, ST and FC connector adapters
- Made of flexible PVC to provide snug fit

| Item No. | Contents | L | | ID | | Bulk Pack Qty. |
|--------------|--------------------------------|-------|------|-------|-----|----------------|
| | | In | mm | In | mm | |
| EFA02-43-001 | SMA Connector Adapter Dust Cap | 0.500 | 12.7 | 0.120 | 3.0 | 500 |
| EFA02-43-002 | ST Connector Adapter Dust Cap | 0.500 | 12.7 | 0.280 | 7.1 | 500 |
| EFA02-43-003 | FC Connector Adapter Dust Cap | 0.310 | 8.0 | 0.280 | 7.1 | 500 |

EFA02-52-001
Ø2.5mm Ferrule Dust Cap

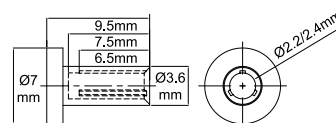


Specifications:

- Material: TPE, RMS-185
- Color: Black

Features:

- Provides environmental protection for 2.5mm ferrules

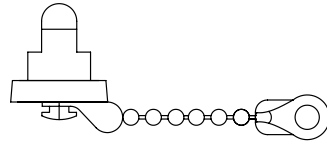


| Item No. | Bulk Pack Qty. |
|--------------|----------------|
| EFA02-52-001 | 500 |



DUST CAPS

EFA02 Connector Dust Caps



Specifications:

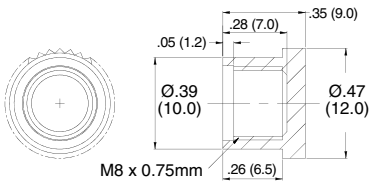
- Material: See Table
- Color: See Table

Features:

- The EFA02-14-001 does not require a dust chain. Other dust caps in this series require the retaining chain and cannot be sold separately
- The steel caps are threaded onto the connector adapters
- Provides mechanical and environmental protection to adaptors when unmated
- Stainless Steel construction suitable for harsh environments
- 2.5" long chain

| Item No. | Material | Bulk Pack Qty. |
|--------------|---|----------------|
| | Stainless Steel Cap & Chain | |
| EFA02-04-ASS | SMA Adapter Dust Cap & Chain | 100 |
| EFA02-07-ASS | DIN Adapter Dust Cap & Chain | 100 |
| EFA02-09-ASS | FC Adapter Dust Cap & Chain | 100 |
| EFA02-10-ASS | ST Adapter Dust Cap & Chain | 100 |
| EFA02-14-001 | — | 250 |
| EFA02-14-ASS | — | 250 |
| | Black TPE Cap & Optional Stainless Steel Chain | |
| | SC Adapter Dust Cap | 250 |
| | EFA02-14-001 Dust Cap with Chain | 250 |

EFA02-03 FC Connector Port Dust Cap



Specifications:

- Material: HDPE
- Color: See Table

Features:

- Dust caps are threaded onto the FC connector adapter providing protection from outside elements

| Item No. | Color | Bulk Pack Qty. |
|--------------|---------|----------------|
| EFA02-03-001 | Natural | 500 |
| EFA02-03-002 | Black | 500 |
| EFA02-03-003 | Green | 500 |
| EFA02-03-004 | White | 500 |
| EFA02-03-005 | Red | 500 |

EFA02 Connector Port Dust Cap and Lanyard



Specifications:

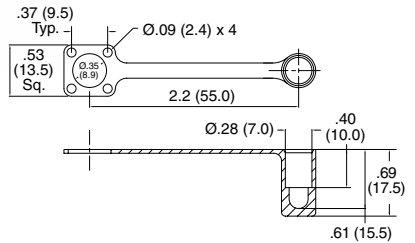
- Material: PVC
- Color: Black

Features:

- Provides environmental protection to various connectors
- Molded-on lanyard is attached to the connector to prevent loss of cover

| Item No. | Contents | A | | B | | C | | D | | Bulk Pack Qty. |
|--------------|----------------------------|-------|------|-------|------|-------|------|-------|------|----------------|
| | | In | mm | In | mm | In | mm | In | mm | |
| EFA02-08-ASS | Biconic Connector Dust Cap | 0.930 | 23.5 | 0.870 | 22.0 | 0.510 | 13.0 | 0.410 | 10.4 | 250 |
| EFA02-11-ASS | ST Connector Dust Cap | 0.730 | 18.5 | 0.670 | 17.0 | 0.470 | 12.0 | 0.340 | 8.7 | 250 |
| EFA02-13-ASS | FC Connector Dust Cap | 0.730 | 18.5 | 0.670 | 17.0 | 0.600 | 15.3 | 0.470 | 12.0 | 250 |

EFA02-35 ST Connector Port Dust Cap and Lanyard



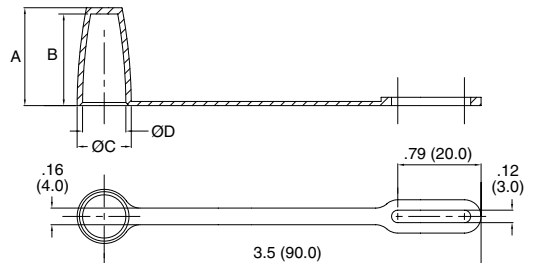
Specifications:

- Material: TPE
- Color: Black

Features:

- Provides environmental protection of ST connector ports
- Molded-on lanyard prevents the loss of the cap

| Item No. | Bulk Pack Qty. |
|--------------|----------------|
| EFA02-35-001 | 250 |





**CP
Connector Plugs**

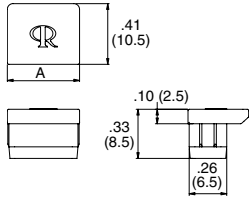


Figure 1

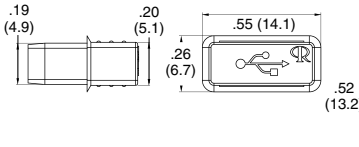


Figure 2

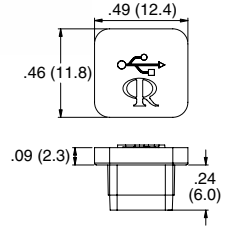


Figure 3

Specifications:

- Material: Silicone Rubber
- Color: Black

Features:

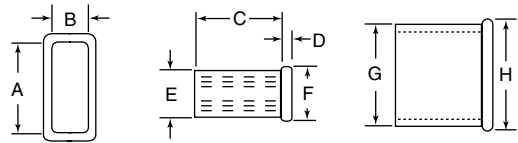
- No stress applied to the adapter's internal components upon entry
- Silicone material for high temperature applications up to 302°F (150°C)

| Item No. | Figure | Connector Port | A | | Bulk Pack Qty. |
|----------|--------|----------------|-------|------|----------------|
| | | | In | mm | |
| CP-RJ11 | 1 | RJ11 | 0.410 | 10.5 | 1000 |
| CP-RJ45 | 1 | RJ45 | 0.490 | 12.5 | 1000 |
| CP-USB-A | 2 | USB-A | — | — | 1000 |
| CP-USB-B | 3 | USB-B | — | — | 1000 |

**USB
USB Connector Caps**

Specifications:

- Material: Polyethylene
- Color: Natural



Features:

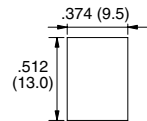
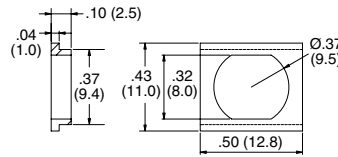
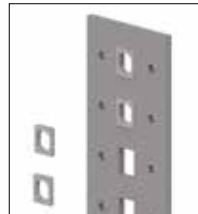
- Protective dust cover

| Item No. | A | | B | | C | | D | | E | | F | | G | | H | | Bulk Pack Qty. |
|----------|-------|------|-------|-----|-------|------|-------|-----|-------|-----|-------|-----|-------|------|-------|------|----------------|
| | In | mm | In | mm | In | mm | In | mm | In | mm | In | mm | In | mm | | | |
| USB0A | 0.504 | 12.8 | 0.185 | 4.7 | 0.484 | 12.3 | 0.043 | 1.1 | 0.256 | 6.5 | 0.299 | 7.6 | 0.575 | 14.6 | 0.610 | 15.5 | 100 |

**OFCA
SC to ST Connector Cutout Adapter**

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural



Recommended Mounting Hole

Features:

- Converts a hole cut-out for an SC connector port into a hole cut-out for an ST connector port

| Item No. | Panel Thickness | | | | Bulk Pack Qty. |
|---------------|-----------------|--|-----------|--|----------------|
| | In | | mm | | |
| OFCA-SC/ST-01 | 0.055 - 0.138 | | 1.4 - 3.5 | | 1000 |

**BPE
Connector Port Plugs**

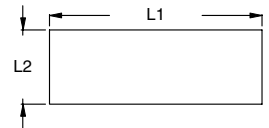
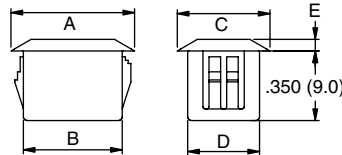


Figure 1

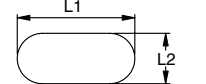


Figure 2

Recommended Mounting Holes

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: See Table

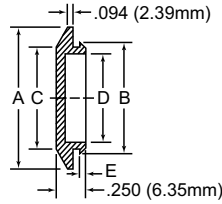
Features:

- Aesthetically pleasing, blanking off redundant connector parts
- Quick and easy installation; simply press fit in the designated hole
- ST series covers Double-D, D or round holes

| Item No. | Color | Mounting Hole Figure | L1 | | L2 | | A | | B | | C | | D | | E | | Bulk Pack Qty. |
|---------------|-------|----------------------|-------------|-----------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|-----|----------------|
| | | | In | mm | In | mm | In | mm | In | mm | In | mm | In | mm | | | |
| BPE-SC-1-01 | Black | 1 | 0.512 | 13.0 | 0.374 | 9.5 | 0.850 | 21.5 | 0.500 | 12.8 | 0.470 | 12.0 | 0.370 | 9.3 | 0.059 | 1.5 | 1000 |
| BPE-SC-2-01 | Black | 1 | 0.512 | 13.0 | 0.374 | 9.5 | 0.630 | 16.0 | 0.500 | 12.8 | 0.470 | 12.0 | 0.370 | 9.3 | 0.059 | 1.5 | 1000 |
| BPE-SC-3-01 | Black | 1 | 1.024 | 26.0 | 0.374 | 9.5 | 1.370 | 34.8 | 1.020 | 25.8 | 0.470 | 12.0 | 0.370 | 9.3 | 0.059 | 1.5 | 1000 |
| BPE-RJ45-01 | Grey | 1 | 0.760-0.790 | 19.3-20.0 | 0.590 | 15.0 | 0.870 | 22.0 | 0.580 | 14.7 | 0.700 | 17.7 | 0.750 | 19.1 | 0.059 | 1.5 | 1000 |
| BPE-LC-D-01BK | Black | 1 | 0.532 | 13.5 | 0.532 | 13.5 | 0.590 | 15.0 | 0.520 | 13.2 | 0.590 | 15.0 | 0.520 | 13.2 | 0.078 | 2.0 | 1000 |
| BPE-ST-1-01 | Black | 2 | 0.370 | 19.4 | 0.311 | 7.9 | Ø.470 | Ø12 | Ø.360 | Ø9.2 | Ø.470 | Ø12 | 0.300 | 7.7 | 0.059 | 1.5 | 1000 |



**S Series
Sheet Metal Plugs**



Specifications:

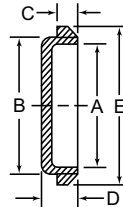
- Material: Low-Density Polyethylene
- Color: Black

Features:

- Economical snap-in plug that provides an attractive finish and a secure fit for entry holes in sheet metal

| Item No. | Hole Size | | Max Metal Thickness | | A | | B | | C | | D | | E | | Pack Qty. | Bulk Pack Qty. |
|----------|-----------|-------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|----|-----------|----------------|
| | In | mm | In | mm | In | mm | In | mm | In | mm | In | mm | In | mm | | |
| S1/4A | 0.250 | 0.110 | 2.79 | 0.500 | 12.70 | 0.280 | 7.11 | 0.250 | 6.35 | 0.188 | 4.78 | 0.250 | 6.35 | 1 | 5000 | |
| SM3/8A | 0.375 | 0.065 | 1.65 | 0.740 | 18.80 | 0.400 | 10.16 | 0.370 | 9.40 | 0.240 | 6.10 | 0.250 | 6.35 | 1 | 5000 | |
| S3/8A | 0.375 | 0.110 | 2.79 | 0.730 | 18.54 | 0.412 | 10.46 | 0.370 | 9.40 | 0.270 | 6.86 | 0.110 | 2.79 | 1 | 5000 | |
| S7/16A | 0.438 | 0.110 | 2.79 | 0.688 | 17.48 | 0.471 | 11.96 | 0.438 | 11.13 | 0.375 | 9.53 | 0.250 | 6.35 | 1 | 6000 | |
| S1/2A | 0.500 | 0.075 | 1.91 | 0.875 | 22.23 | 0.570 | 14.48 | 0.510 | 12.95 | 0.375 | 9.53 | 0.115 | 2.92 | 1 | 6000 | |
| S9/16A | 0.563 | 0.110 | 2.79 | 0.813 | 20.64 | 0.600 | 15.24 | 0.563 | 14.3 | 0.500 | 12.70 | 0.250 | 6.35 | 1 | 6000 | |
| S5/8A | 0.625 | 0.075 | 1.91 | 0.813 | 20.65 | 0.670 | 17.02 | 0.620 | 15.75 | 0.540 | 13.72 | 0.100 | 2.54 | 1 | 6000 | |
| S11/16A | 0.688 | 0.110 | 2.79 | 1.000 | 25.40 | 0.720 | 18.29 | 0.688 | 17.48 | 0.925 | 23.50 | 0.250 | 6.35 | 1 | 5000 | |
| SM3/4A | 0.750 | 0.094 | 2.39 | 1.120 | 28.45 | 0.810 | 20.57 | 0.760 | 19.30 | 0.610 | 15.49 | 0.250 | 6.35 | 1 | 5000 | |
| S3/4A | 0.750 | 0.110 | 2.79 | 1.125 | 28.58 | 0.790 | 20.07 | 0.760 | 19.30 | 0.623 | 15.82 | 0.115 | 2.92 | 1 | 6500 | |
| S13/16A | 0.813 | 0.110 | 2.79 | 1.125 | 28.58 | 0.845 | 21.46 | 0.813 | 20.65 | 0.750 | 19.05 | 0.250 | 6.35 | 1 | 5000 | |
| S7/8A | 0.875 | 0.110 | 2.79 | 1.250 | 31.75 | 0.900 | 22.86 | 0.870 | 22.10 | 0.745 | 18.92 | 0.094 | 2.39 | 1 | 5000 | |
| S15/16A | 0.937 | 0.111 | 2.80 | 1.251 | 31.76 | 0.980 | 24.9 | 0.937 | 23.8 | 0.875 | 22.23 | 0.250 | 6.35 | 1 | 5000 | |
| S1A | 1.000 | 0.110 | 2.79 | 1.438 | 36.53 | 1.040 | 26.42 | 1.010 | 25.65 | 0.875 | 22.23 | 0.110 | 2.79 | 1 | 3500 | |
| S1-3/32A | 1.094 | 0.110 | 2.79 | 1.375 | 34.93 | 1.150 | 29.21 | 1.094 | 27.79 | 1.031 | 26.19 | 0.250 | 6.35 | 1 | 4000 | |
| S1-1/8A | 1.125 | 0.110 | 2.79 | 1.500 | 38.10 | 1.180 | 29.97 | 1.125 | 28.58 | 1.063 | 27.00 | 0.250 | 6.35 | 1 | 3000 | |
| S1-1/16A | 1.313 | 0.110 | 2.79 | 1.688 | 42.88 | 1.360 | 34.54 | 1.313 | 33.35 | 1.250 | 31.75 | 0.250 | 6.35 | 1 | 2500 | |
| S1-1/2A | 1.500 | 0.110 | 2.79 | 1.875 | 47.63 | 1.540 | 39.12 | 1.500 | 38.10 | 1.400 | 35.56 | 0.110 | 2.79 | 1 | 2000 | |
| S1-3/4A | 1.750 | 0.110 | 2.79 | 2.130 | 54.10 | 1.835 | 46.61 | 1.730 | 43.94 | 1.610 | 40.89 | 0.105 | 2.67 | 1 | 1500 | |
| S2A | 2.000 | 0.110 | 2.79 | 2.375 | 60.33 | 2.060 | 52.32 | 2.000 | 50.80 | 1.938 | 49.23 | 0.250 | 6.35 | 1 | 1000 | |
| S2-1/8A | 2.125 | 0.110 | 2.79 | 2.500 | 63.50 | 2.175 | 55.25 | 2.125 | 53.98 | 2.063 | 52.40 | 0.250 | 6.35 | 1 | 1000 | |
| S2-1/2A | 2.500 | 0.110 | 2.79 | 3.000 | 76.20 | 2.560 | 65.02 | 2.500 | 63.50 | 2.438 | 61.93 | 0.250 | 6.35 | 1 | 700 | |
| S2-5/8A | 2.625 | 0.110 | 2.79 | 3.125 | 79.38 | 2.685 | 68.20 | 2.625 | 66.68 | 2.563 | 65.10 | 0.250 | 6.35 | 1 | 1200 | |
| S3A | 3.000 | 0.110 | 2.79 | 3.375 | 85.73 | 3.060 | 77.72 | 3.000 | 76.20 | 2.938 | 74.63 | 0.250 | 6.35 | 1 | 1000 | |
| S3-3/8A | 3.375 | 0.110 | 2.79 | 3.750 | 95.25 | 3.435 | 87.25 | 3.375 | 85.73 | 3.313 | 84.15 | 0.250 | 6.35 | 1 | 500 | |
| S3-1/2A | 3.500 | 0.110 | 2.79 | 3.875 | 98.43 | 3.560 | 90.42 | 3.500 | 88.90 | 3.438 | 87.33 | 0.250 | 6.35 | 1 | 600 | |

**SR Series
Recessed Sheet Metal Plugs**



Specifications:

- Material: Low-Density Polyethylene
- Color: Black

Features:

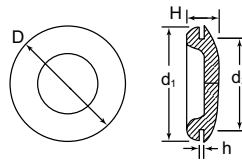
- Economical snap-in plug that provides an attractive finish and a secure fit for entry holes in sheet metal

| Item No. | Hole Size | | Max Metal Thickness | | A | | B | | C | | D | | E | | Pack Qty. | Bulk Pack Qty. |
|----------|-----------|-------|---------------------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|----|-----------|----------------|
| | In | mm | In | mm | In | mm | In | mm | In | mm | In | mm | In | mm | | |
| SR1/2A | 0.500 | 0.110 | 2.79 | 0.510 | 12.95 | 0.550 | 13.97 | 0.090 | 2.29 | 0.290 | 7.37 | 0.850 | 21.59 | 1 | 3000 | |
| SR3/4A | 0.750 | 0.180 | 4.57 | 0.750 | 19.05 | 0.800 | 20.32 | 0.190 | 4.83 | 0.380 | 9.65 | 1.156 | 29.36 | 1 | 4000 | |
| SR7/8A | 0.875 | 0.180 | 4.57 | 0.875 | 22.23 | 0.920 | 23.37 | 0.190 | 4.83 | 0.380 | 9.65 | 1.250 | 31.75 | 1 | 3500 | |
| SR1A | 1.000 | 0.150 | 3.81 | 1.000 | 25.40 | 1.043 | 26.49 | 0.096 | 2.44 | 0.319 | 8.10 | 1.377 | 34.98 | 1 | 3500 | |
| SR1-1/4A | 1.250 | 0.120 | 3.04 | 1.280 | 32.51 | 1.330 | 33.78 | 0.120 | 3.05 | 0.350 | 8.89 | 1.615 | 41.02 | 1 | 2000 | |
| SR1-3/8A | 1.375 | 0.190 | 4.82 | 1.375 | 34.93 | 1.437 | 36.50 | 0.200 | 5.08 | 0.410 | 10.41 | 1.750 | 44.45 | 1 | 1800 | |
| SR1-1/2A | 1.500 | 0.125 | 3.17 | 1.515 | 38.48 | 1.555 | 39.50 | 0.120 | 3.05 | 0.350 | 8.89 | 1.875 | 47.63 | 1 | 1500 | |
| SR1-5/8A | 1.625 | 0.190 | 4.82 | 1.625 | 41.28 | 1.688 | 42.88 | 0.200 | 5.08 | 0.410 | 10.41 | 2.000 | 50.80 | 1 | 1000 | |
| SR1-3/4A | 1.750 | 0.190 | 4.82 | 1.750 | 44.45 | 1.812 | 46.02 | 0.200 | 5.08 | 0.410 | 10.41 | 2.125 | 53.98 | 1 | 1000 | |
| SR1-7/8A | 1.875 | 0.190 | 4.82 | 1.875 | 47.63 | 1.937 | 49.20 | 0.200 | 5.08 | 0.410 | 10.41 | 2.250 | 57.15 | 1 | 900 | |
| SR2A | 2.000 | 0.190 | 4.82 | 2.000 | 50.80 | 2.060 | 52.32 | 0.170 | 4.32 | 0.390 | 9.91 | 2.500 | 63.50 | 1 | 800 | |
| SR3A | 3.000 | 0.190 | 4.82 | 3.000 | 76.20 | 3.065 | 77.85 | 0.200 | 5.08 | 0.410 | 10.41 | 3.500 | 88.90 | 1 | 300 | |



SHEET METAL PLUGS

Blanking Plug Series PVC Hole Plugs



Specifications:

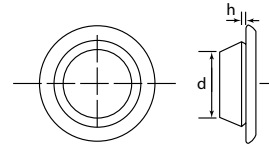
- Materials: PVC or TPR
- Color: Black

Features:

- PVC material: Non-staining; resistant to ozone, acids, and sunlight; with excellent aging qualities
- TPR Material: Very resistant to oils, acids and alkalies; resistant temperatures (up to 350°F, 176°C short term)

| Item No. | | Panel Hole Size d2 | | Panel Thickness h | | D= O.D. | | Depth H | | d1 | | Pack Qty. | Bulk Pack Qty. |
|----------|--------|--------------------|-------|-------------------|------|---------|-------|---------|-------|-------|-------|-----------|----------------|
| PVC | TPR | In | mm | In | mm | In | mm | In | mm | In | mm | | |
| 10860B | 15150B | 0.187 | 4.70 | 0.063 | 1.60 | 0.366 | 9.30 | 0.181 | 4.60 | 0.366 | 9.30 | 1 | 10000 |
| 10825B | 15151B | 0.250 | 6.40 | 0.063 | 1.60 | 0.374 | 9.50 | 0.197 | 5.00 | 0.374 | 9.50 | 1 | 10000 |
| 10832B | — | 0.313 | 8.00 | 0.031 | 0.80 | 0.571 | 14.50 | 0.157 | 4.00 | 0.417 | 10.60 | 1 | 10000 |
| 10233B | — | 0.313 | 8.00 | 0.063 | 1.60 | 0.571 | 14.50 | 0.177 | 4.50 | 0.417 | 10.60 | 1 | 10000 |
| 10488B | — | 0.354 | 9.00 | 0.063 | 1.60 | 0.591 | 15.00 | 0.260 | 6.60 | 0.488 | 12.40 | 1 | 10000 |
| 10912B | 15155B | 0.438 | 11.10 | 0.063 | 1.60 | 0.697 | 17.70 | 0.244 | 6.20 | 0.504 | 12.80 | 1 | 10000 |
| 10768B | — | 0.453 | 11.50 | 0.063 | 1.60 | 0.669 | 17.00 | 0.276 | 7.00 | 0.610 | 15.50 | 1 | 5000 |
| 15511B | — | 0.469 | 11.90 | 0.047 | 1.20 | 0.689 | 17.50 | 0.280 | 7.10 | 0.626 | 15.90 | 1 | 10000 |
| 10502B | 15157B | 0.500 | 12.70 | 0.063 | 1.60 | 0.736 | 18.70 | 0.220 | 5.60 | 0.610 | 15.50 | 1 | 5000 |
| 11321B | 15158B | 0.587 | 14.90 | 0.051 | 1.30 | 0.787 | 20.00 | 0.276 | 7.00 | 0.724 | 18.40 | 1 | 10000 |
| 10213B | 15159B | 0.610 | 15.50 | 0.063 | 1.60 | 0.866 | 22.00 | 0.295 | 7.50 | 0.748 | 19.00 | 1 | 5000 |
| 40043B | — | 0.625 | 15.90 | 0.063 | 1.60 | 0.748 | 19.00 | 0.280 | 7.10 | 0.748 | 19.00 | 1 | 10000 |
| 12914B | — | 0.642 | 16.30 | 0.051 | 1.30 | 0.787 | 20.00 | 0.276 | 7.00 | 0.728 | 18.50 | 1 | 5000 |
| 10678B | 15160B | 0.750 | 19.00 | 0.063 | 1.60 | 0.984 | 25.00 | 0.256 | 6.50 | 0.846 | 21.50 | 1 | 5000 |
| 10499A | 15161B | 0.781 | 20.00 | 0.063 | 1.60 | 0.984 | 25.00 | 0.256 | 6.50 | 0.846 | 21.50 | 1 | 5000 |
| 11152B | 15162B | 0.866 | 22.00 | 0.094 | 2.40 | 1.122 | 28.50 | 0.323 | 8.20 | 1.047 | 26.60 | 1 | 3000 |
| 10902B | — | 0.875 | 22.50 | 0.063 | 1.60 | 1.122 | 28.50 | 0.295 | 7.50 | 1.063 | 27.00 | 1 | 3000 |
| 11027B | 15164B | 0.968 | 24.50 | 0.094 | 2.40 | 1.181 | 30.00 | 0.343 | 8.70 | 1.083 | 27.50 | 1 | 2000 |
| 11323B | — | 0.984 | 25.00 | 0.031 | 0.80 | 1.516 | 38.50 | 0.181 | 4.60 | 1.122 | 28.50 | 1 | 3000 |
| 10705B | 15166B | 1.000 | 25.40 | 0.063 | 1.60 | 1.260 | 32.00 | 0.354 | 9.00 | 1.114 | 28.30 | 1 | 3000 |
| 11148B | 15165B | 1.000 | 25.40 | 0.094 | 2.40 | 1.260 | 32.00 | 0.354 | 9.00 | 1.114 | 28.30 | 1 | 3000 |
| 11239B | — | 1.250 | 31.50 | 0.031 | 0.80 | 1.504 | 38.20 | 0.276 | 7.00 | 1.240 | 31.50 | 1 | 2000 |
| 11059B | 15168B | 1.250 | 31.50 | 0.063 | 1.60 | 1.504 | 38.20 | 0.295 | 7.50 | 1.394 | 35.40 | 1 | 2000 |
| 11281B | 15170B | 1.260 | 32.00 | 0.122 | 3.10 | 1.504 | 38.20 | 0.354 | 9.00 | 1.394 | 35.40 | 1 | 2000 |
| 10877B | 15171B | 1.500 | 38.20 | 0.063 | 1.60 | 1.720 | 43.70 | 0.323 | 8.20 | 1.693 | 43.00 | 1 | 1500 |
| 10320B | 15172B | 2.031 | 51.50 | 0.063 | 1.60 | 2.264 | 57.50 | 0.488 | 12.40 | 2.071 | 52.60 | 1 | 500 |

Body Series TPR Hole Plugs



Specifications:

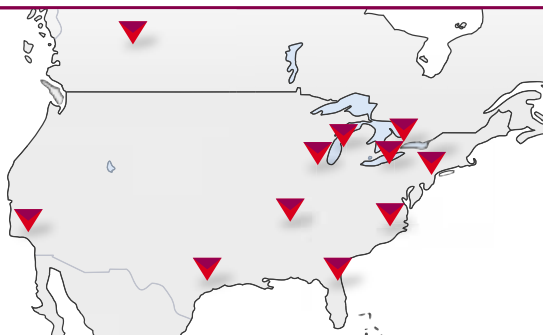
- Material: TPR (-100°F to 300°F)

Features:

- Each size covers a range of panel thicknesses
- Designed to fit standard metric holes
- Very resistant to oils, acids and alkalies

| Item No. | Panel Hole d | | Panel Thickness h | | Pack Qty. | Bulk Pack Qty. |
|----------|--------------|-------|-------------------|---------|-----------|----------------|
| | In | mm | In | mm | | |
| 16230B | 0.394 | 10.00 | .032-.078 | 0.8-2.0 | 1 | 5000 |
| 16231B | 0.472 | 12.00 | .031-.078 | 0.8-2.0 | 1 | 5000 |
| 16232B | 0.551 | 14.00 | .031-.078 | 0.8-2.0 | 1 | 5000 |
| 16233B | 0.630 | 16.00 | .031-.078 | 0.8-2.0 | 1 | 5000 |
| 16234B | 0.709 | 18.00 | .031-.078 | 0.8-2.0 | 1 | 2500 |

| Item No. | Panel Hole d | | Panel Thickness h | | Pack Qty. | Bulk Pack Qty. |
|----------|--------------|-------|-------------------|---------|-----------|----------------|
| | In | mm | In | mm | | |
| 16235B | 0.787 | 20.00 | .031-.078 | 0.8-2.0 | 1 | 2500 |
| 16236B | 0.866 | 22.00 | .031-.078 | 0.8-2.0 | 1 | 2500 |
| 16237B | 0.984 | 25.00 | .031-.078 | 0.8-2.0 | 1 | 3000 |
| 16238B | 1.181 | 30.00 | .031-.078 | 0.8-2.0 | 1 | 2000 |
| 10517B | 1.772 | 45.00 | .031-.078 | 0.8-2.0 | 1 | 1000 |

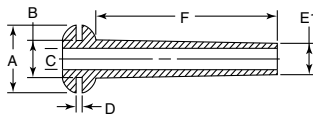


11 LOCATIONS TO SERVE YOU
SAME DAY SHIPPING
OVER 1 BILLION PARTS IN STOCK

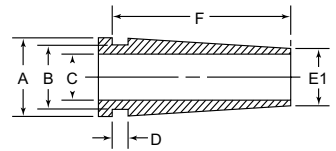




**GRS / RGS
 Grommet Sleeve**



Style 1



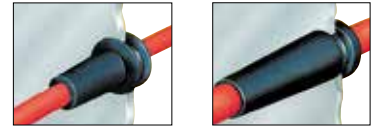
Style 2

Specifications:

- Material: PVC
- Color: Black

Features:

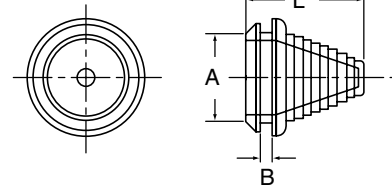
- Sleeve design provides additional support and protection for cables/wires passing thru panel
- PVC is non-staining; resistant to ozone, acids, and sunlight; with excellent aging qualities



| Item No. | Style | B Hole Ø | | Panel Thickness D | | A Ø | | C Ø | | E1 | | F | | Pack Qty. | Bulk Pack Qty. |
|-------------|-------|----------|------|-------------------|-----|-------|------|-------|-----|-------|------|-------|------|-----------|----------------|
| | | In | mm | In | mm | In | mm | In | mm | In | mm | In | mm | | |
| GRS1030151A | 1 | 0.300 | 7.6 | 0.156 | 4.0 | 0.560 | 14.2 | 0.240 | 6.1 | 0.311 | 7.9 | 1.250 | 31.8 | 1 | 5000 |
| RGS1-60466 | 1 | 0.343 | 8.7 | 0.062 | 1.6 | 0.560 | 14.2 | 0.200 | 5.1 | 0.280 | 7.1 | 1.650 | 42.0 | 1 | 4000 |
| GRS1037091A | 1 | 0.374 | 9.5 | 0.094 | 2.4 | 0.560 | 14.2 | 0.250 | 6.4 | 0.311 | 7.9 | 0.562 | 14.3 | 1 | 10000 |
| RGS2-12462 | 2 | 0.500 | 12.7 | 0.125 | 3.2 | 0.595 | 15.1 | 0.375 | 9.5 | 0.468 | 11.9 | 1.398 | 35.5 | 1 | 1000 |
| GRS2050121A | 2 | 0.500 | 12.7 | 0.125 | 3.2 | 0.595 | 15.1 | 0.375 | 9.5 | 0.468 | 11.9 | 1.398 | 35.5 | 1 | 2000 |
| RGS2-51409 | 2 | 0.500 | 12.7 | 0.031 | 0.8 | 0.750 | 19.1 | 0.381 | 9.7 | 0.480 | 12.2 | 1.055 | 26.8 | 1 | 1000 |
| GRS2050031A | 2 | 0.500 | 12.7 | 0.031 | 0.8 | 0.750 | 19.1 | 0.381 | 9.7 | 0.480 | 12.2 | 1.055 | 26.8 | 1 | 4000 |

GRC

Stepped Grommet



Specifications:

- Material: PVC
- Color: Black

Features:

- Protects wires, cables, tubing, hoses
- Accommodates a range of cable sizes
- Can be used as a blanking plug until cut

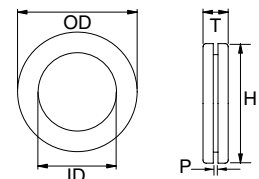
| Item No. | Panel Hole Size A | | Panel Thickness B | | Length L | | Cable Range | | Pack Qty. | Bulk Pack Qty. |
|----------|-------------------|------|-------------------|-----|----------|------|---------------|-------------|-----------|----------------|
| | In | mm | In | mm | In | mm | In | mm | | |
| 462039 | 0.500 | 12.7 | 0.120 | 3.0 | 1.270 | 32.5 | 0.200 - 0.350 | 5.0 - 9.0 | 1 | 1000 |
| 462040 | 0.830 | 21.0 | 0.120 | 3.0 | 1.080 | 27.5 | 0.200 - 0.670 | 5.0 - 17.0 | 1 | 1000 |
| 462041 | 1.020 | 26.0 | 0.120 | 3.0 | 1.160 | 29.5 | 0.390 - 0.870 | 10.0 - 22.0 | 1 | 1000 |

HG

TPE Flexible Hole Grommet

Specifications:

- Material: TPE Rubber UL94 HB Flexible TPV Rated
- Color: Black
- Temperature Rating: -58°F to 203°F (-50°C - 95°C)



Features:

- Molded out of UL94-HB Material
- Suitable for outdoor use in accordance with UL 746C

| Item No. | Mounting Hole H | | Panel Thickness P | | ID | | OD | | Thickness T | | Pack Qty. | Bulk Pack Qty. |
|----------|-----------------|------|-------------------|-----|-------|------|-------|------|-------------|-----|-----------|----------------|
| | In | mm | In | mm | In | mm | In | mm | In | mm | | |
| HG-2 | 0.190 | 4.8 | 0.063 | 1.6 | 0.125 | 3.2 | 0.313 | 8.0 | 0.252 | 6.4 | 1 | 1000 |
| HG-2.5 | 0.252 | 6.4 | 0.063 | 1.6 | 0.156 | 4.0 | 0.375 | 9.5 | 0.248 | 6.3 | 1 | 1000 |
| HG-3 | 0.305 | 7.7 | 0.032 | 0.8 | 0.188 | 4.8 | 0.430 | 10.9 | 0.188 | 4.8 | 1 | 1000 |
| HG-3.5 | 0.315 | 8.0 | 0.063 | 1.6 | 0.219 | 5.5 | 0.430 | 10.9 | 0.217 | 5.5 | 1 | 1000 |
| HG-4 | 0.375 | 9.5 | 0.094 | 2.4 | 0.250 | 6.4 | 0.559 | 14.2 | 0.276 | 7.0 | 1 | 1000 |
| HG-5 | 0.430 | 10.9 | 0.063 | 1.6 | 0.313 | 8.0 | 0.562 | 14.3 | 0.188 | 4.8 | 1 | 1000 |
| HG-17 | 0.433 | 11.0 | 0.079 | 2.0 | 0.313 | 8.0 | 0.630 | 16.0 | 0.276 | 7.0 | 1 | 1000 |
| HG-6 | 0.492 | 12.5 | 0.063 | 1.6 | 0.375 | 9.5 | 0.669 | 17.0 | 0.276 | 7.0 | 1 | 1000 |
| HG-8 | 0.660 | 16.8 | 0.063 | 1.6 | 0.495 | 12.6 | 0.846 | 21.5 | 0.250 | 6.4 | 1 | 1000 |
| HG-9 | 0.675 | 17.1 | 0.063 | 1.6 | 0.558 | 14.2 | 0.875 | 22.2 | 0.188 | 4.8 | 1 | 1000 |
| HG-11 | 0.735 | 18.7 | 0.063 | 1.6 | 0.672 | 17.1 | 0.933 | 23.7 | 0.188 | 4.8 | 1 | 1000 |
| HG-10 | 0.742 | 18.8 | 0.063 | 1.6 | 0.610 | 15.5 | 0.875 | 22.2 | 0.219 | 5.6 | 1 | 1000 |
| HG-18 | 0.748 | 19.0 | 0.094 | 2.4 | 0.500 | 12.7 | 0.954 | 24.0 | 0.280 | 7.1 | 1 | 1000 |
| HG-12 | 0.976 | 24.8 | 0.063 | 1.6 | 0.734 | 18.6 | 1.234 | 31.3 | 0.313 | 8.0 | 1 | 1000 |
| HG-14 | 0.990 | 25.1 | 0.063 | 1.6 | 0.860 | 21.8 | 1.188 | 30.2 | 0.313 | 8.0 | 1 | 1000 |
| HG-16 | 1.240 | 31.5 | 0.063 | 1.6 | 0.970 | 24.6 | 1.500 | 38.1 | 0.313 | 8.0 | 1 | 1000 |



PGSA
Shallow Open Insulation Bushing

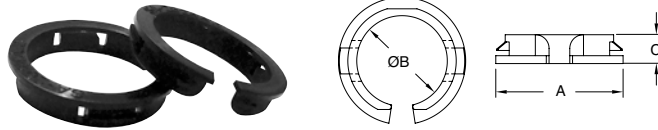


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Black

Features:

- Molded with shallow overall height for applications with limited space
- Open design allows bushing to be assembled into holes that already contain a bundle
- Protects wires, cables, and tubing from sharp edges of sheet metal holes



| Item No. | Approval | Panel Thickness Range | | OD A Ref. | | ID B | | Overall Height C | | Bulk Pack Qty. | | |
|-------------|----------|-----------------------|-------|-----------|-----|-------|------|------------------|------|----------------|-----|------|
| | | In | mm | In | mm | In | mm | In | mm | | | |
| PGSA-0407A | | 0.016 | 0.039 | 0.4 | 1.0 | 0.410 | 10.4 | 0.190 | 4.8 | 0.200 | 5.0 | 1000 |
| PGSA-1013A | | 0.039 | 0.059 | 1.0 | 1.5 | 0.640 | 16.2 | 0.360 | 9.2 | 0.210 | 5.3 | 500 |
| PGSA-1316A | | 0.039 | 0.055 | 1.0 | 1.4 | 0.760 | 19.4 | 0.480 | 12.2 | 0.210 | 5.4 | 500 |
| PGSA-1519A | | 0.039 | 0.059 | 1.0 | 1.5 | 0.890 | 22.7 | 0.560 | 14.3 | 0.220 | 5.7 | 500 |
| PGSA-1822A | | 0.031 | 0.063 | 0.8 | 1.6 | 1.000 | 25.5 | 0.690 | 17.6 | 0.220 | 5.6 | 500 |
| PGSA-2024A1 | | 0.031 | 0.047 | 0.8 | 1.2 | 1.060 | 27.0 | 0.770 | 19.5 | 0.210 | 5.3 | 500 |
| PGSA-2024A | | 0.039 | 0.063 | 1.0 | 1.6 | 1.060 | 27.0 | 0.770 | 19.5 | 0.210 | 5.3 | 500 |
| PGSA-2327A | | 0.016 | 0.039 | 0.4 | 1.0 | 1.380 | 35.1 | 0.900 | 22.9 | 0.240 | 6.0 | 200 |
| PGSA-2529A | | 0.016 | 0.043 | 0.4 | 1.1 | 1.380 | 35.1 | 0.970 | 24.5 | 0.280 | 7.0 | 200 |

PGSB-A
Standard Open Insulation Bushing

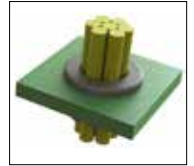
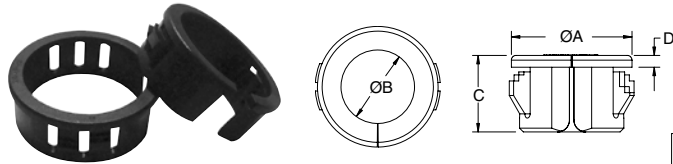


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Black

Features:

- Easy to push in design locks into place at common panel thicknesses
- Split design allows bushing to be assembled into holes that already contained a bundle
- Protects wires, cables, and tubing from sharp edges of sheet metal holes



| Item No. | Approval | Mounting Hole | | Panel Thickness Range | | OD A Ref. | | ID B | | Overall Height C | | Head Height D | | Bulk Pack Qty. | | |
|------------|----------|---------------|------|-----------------------|-------|-----------|-----|-------|------|------------------|------|---------------|------|----------------|-----|------|
| | | In | mm | In | mm | In | mm | In | mm | In | mm | In | mm | | | |
| PGSB-0609A | | 0.375 | 9.5 | 0.028 | 0.067 | 0.7 | 1.7 | 0.450 | 11.4 | 0.260 | 6.6 | 0.260 | 6.5 | 0.051 | 1.3 | 1000 |
| PGSB-1A | | 0.375 | 9.5 | 0.031 | 0.125 | 0.8 | 3.2 | 0.420 | 10.7 | 0.265 | 6.7 | 0.390 | 9.9 | 0.051 | 1.3 | 1000 |
| PGSB-2A | | 0.437 | 11.1 | 0.031 | 0.125 | 0.8 | 3.2 | 0.50 | 12.7 | 0.312 | 7.9 | 0.406 | 10.3 | 0.063 | 1.6 | 1000 |
| PGSB-1013A | | 0.512 | 13.0 | 0.031 | 0.138 | 0.8 | 3.5 | 0.590 | 14.9 | 0.350 | 9.0 | 0.410 | 10.5 | 0.059 | 1.5 | 500 |
| PGSB-3A | | 0.562 | 14.3 | 0.031 | 0.125 | 0.8 | 3.2 | 0.640 | 16.3 | 0.390 | 9.9 | 0.406 | 10.3 | 0.063 | 1.6 | 500 |
| PGSB-1216A | | 0.650 | 16.5 | 0.028 | 0.130 | 0.7 | 3.3 | 0.730 | 18.6 | 0.480 | 12.3 | 0.390 | 10.0 | 0.039 | 1.0 | 500 |
| PGSB-1316A | | 0.630 | 16.0 | 0.047 | 0.138 | 1.2 | 3.5 | 0.710 | 18.0 | 0.410 | 10.5 | 0.410 | 10.5 | 0.063 | 1.6 | 500 |
| PGSB-1519A | | 0.748 | 19.0 | 0.047 | 0.130 | 1.2 | 3.3 | 0.810 | 20.6 | 0.570 | 14.5 | 0.430 | 11.0 | 0.051 | 1.3 | 200 |
| PGSB-1822A | | 0.866 | 22.0 | 0.039 | 0.138 | 1.0 | 3.5 | 0.980 | 24.8 | 0.680 | 17.3 | 0.450 | 11.5 | 0.063 | 1.6 | 200 |
| PGSB-9A | | 0.984 | 25.0 | 0.031 | 0.118 | 0.8 | 3.0 | 1.039 | 26.4 | 0.803 | 20.4 | 0.406 | 10.3 | 0.063 | 1.6 | 200 |
| PGSB-4A | | 1.000 | 25.4 | 0.031 | 0.125 | 0.8 | 3.2 | 1.047 | 26.6 | 0.812 | 20.6 | 0.406 | 10.3 | 0.063 | 1.6 | 200 |
| PGSB-5A | | 1.093 | 27.8 | 0.031 | 0.125 | 0.8 | 3.2 | 1.156 | 29.4 | 0.875 | 22.2 | 0.406 | 10.3 | 0.063 | 1.6 | 200 |
| PGSB-6A | | 1.250 | 31.8 | 0.031 | 0.125 | 0.8 | 3.2 | 1.343 | 34.1 | 1.046 | 26.6 | 0.406 | 10.3 | 0.063 | 1.6 | 200 |
| PGSB-7A | | 1.375 | 34.9 | 0.031 | 0.125 | 0.8 | 3.2 | 1.468 | 37.3 | 1.171 | 29.7 | 0.406 | 10.3 | 0.063 | 1.6 | 200 |
| PGSB-8A | | 1.500 | 38.1 | 0.031 | 0.125 | 0.8 | 3.2 | 1.578 | 40.1 | 1.250 | 31.7 | 0.421 | 10.7 | 0.063 | 1.6 | 200 |

ASB
Armor Bushing

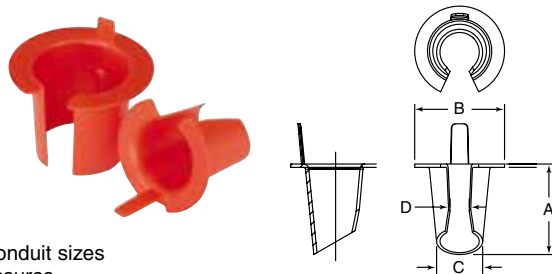


Specifications:

- Material: Polypropylene
- Color: Red

Features:

- Fits armored cable and flexible metal conduit sizes
- Features high dielectric strength and assures insulation on all sharp edges

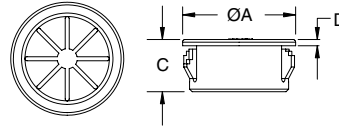


| Item No. | Approvals | Size | A | | B | | C | | D | | Cable Size | Trade Size In | Bulk Pack Qty. |
|----------|-----------|------|-------|-------|-------|-------|-------|-------|-------|------|------------------------------|---------------|----------------|
| | | | In | mm | In | mm | In | mm | In | mm | | | |
| ASB0A | | 0 | 0.560 | 14.22 | 0.671 | 17.04 | 0.380 | 9.650 | 0.312 | 7.92 | 14/2, 14/3, 12/2 | 5/16 | 30000 |
| ASB1A | | 1 | 0.650 | 16.51 | 0.671 | 17.04 | 0.450 | 11.43 | 0.312 | 7.92 | 14/4, 12/3, 6/1, 4/1 | 3/8 | 20000 |
| ASB2A | | 2 | 0.610 | 15.49 | 0.859 | 21.82 | 0.580 | 14.73 | 0.125 | 3.18 | 12/4, 10/2, 10/3, 2/1 | 7/16 | 15000 |
| ASB3A | | 3 | 0.670 | 17.02 | 1.046 | 26.57 | 0.790 | 20.07 | 0.109 | 2.77 | 10/4, 8/2, 8/3, 1/1 | 1/2 | 7500 |
| ASB4A | | 4 | 0.830 | 21.08 | 1.266 | 32.15 | 1.000 | 25.40 | 0.156 | 3.96 | 8/4, 6/4, 6/3, 6/2, 4/3, 4/2 | 3/4 | 4000 |



GROMMETS & BUSHINGS

PGSD Universal Bushing



Specifications:

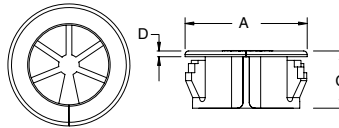
- Material: UL94 V-2 Nylon 6/6
- Color: Black

Features:

- Absorbs vibration and cushions and insulates bundles

| Item No. | Approval | Mounting Hole | | Max Panel Thickness | | OD A | | Max ID | | Overall Height C | | Head Height D | | Bulk Pack Qty. |
|----------|----------|---------------|------|---------------------|-----|-------|------|--------|------|------------------|------|---------------|-----|----------------|
| | | In | mm | In | mm | In | mm | In | mm | In | mm | In | mm | |
| PGSD-1 | UL | 0.500 | 12.7 | 0.062 | 1.8 | 0.600 | 15.2 | 0.312 | 7.9 | 0.250 | 6.4 | 0.063 | 1.6 | 500 |
| PGSD-5 | UL | 0.500 | 12.7 | 0.125 | 3.2 | 0.600 | 15.2 | 0.312 | 7.9 | 0.385 | 9.8 | 0.041 | 1.0 | 500 |
| PGSD-2 | UL | 0.625 | 15.9 | 0.062 | 1.8 | 0.729 | 18.5 | 0.437 | 11.1 | 0.250 | 6.4 | 0.063 | 1.6 | 500 |
| PGSD-6 | UL | 0.625 | 15.9 | 0.125 | 3.2 | 0.729 | 18.5 | 0.437 | 11.1 | 0.406 | 10.3 | 0.063 | 1.6 | 500 |
| PGSD-3 | UL | 0.750 | 19.1 | 0.062 | 1.8 | 0.844 | 21.4 | 0.500 | 12.7 | 0.250 | 6.4 | 0.063 | 1.6 | 200 |
| PGSD-7 | UL | 0.750 | 19.1 | 0.125 | 3.2 | 0.844 | 21.4 | 0.500 | 12.7 | 0.390 | 9.9 | 0.047 | 1.2 | 200 |
| PGSD-4 | UL | 0.875 | 22.2 | 0.062 | 1.8 | 0.937 | 23.8 | 0.560 | 14.2 | 0.250 | 6.4 | 0.063 | 1.6 | 200 |
| PGSD-8 | UL | 0.875 | 22.2 | 0.125 | 3.2 | 0.937 | 23.8 | 0.560 | 14.2 | 0.453 | 11.5 | 0.063 | 1.6 | 200 |
| PGSD-9 | UL | 1.000 | 25.4 | 0.125 | 3.2 | 1.063 | 27.0 | 0.750 | 19.1 | 0.453 | 11.5 | 0.063 | 1.6 | 200 |
| PGSD-10 | UL | 1.375 | 34.9 | 0.125 | 3.2 | 1.490 | 37.8 | 1.000 | 25.4 | 0.453 | 11.5 | 0.063 | 1.6 | 100 |
| PGSD-11 | UL | 1.500 | 38.1 | 0.125 | 3.2 | 1.609 | 40.9 | 1.062 | 27.0 | 0.450 | 11.4 | 0.059 | 1.5 | 100 |

PGSC Open Universal Bushing



Specifications:

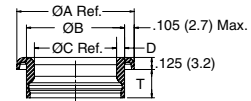
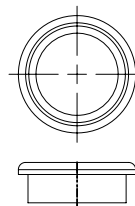
- Material: UL94V-2 Nylon 6/6
- Color: Black

Features:

- Easy to push in design locks into place at common panel thicknesses
- Open design allows bushing to be assembled into holes that already contain a bundle
- Adjust to accept various diameters and shapes

| Item No. | Approval | Mounting Hole | | Max Panel Thickness | | OD A | | Max ID | | Overall Height C | | Head Height D | | Bulk Pack Qty. |
|------------|----------|---------------|-------------|---------------------|-----------|-------|------|--------|------|------------------|------|---------------|-----|----------------|
| | | In | mm | In | mm | In | mm | In | mm | In | mm | In | mm | |
| PGSC-1319A | UL | 0.748 - 0.752 | 19.0 - 19.1 | 0.031 - 0.118 | 0.8 - 3.0 | 0.858 | 21.8 | 0.500 | 12.7 | 0.390 | 9.9 | 0.039 | 1.0 | 500 |
| PGSC-1422A | UL | 0.874 - 0.882 | 22.2 - 22.4 | 0.031 - 0.118 | 0.8 - 3.0 | 0.937 | 23.8 | 0.563 | 14.3 | 0.453 | 11.5 | 0.039 | 1.0 | 200 |
| PGSC-1926A | UL | 1.000 - 1.004 | 25.4 - 25.5 | 0.031 - 0.118 | 0.8 - 3.0 | 1.063 | 27.0 | 0.748 | 19.0 | 0.453 | 11.5 | 0.039 | 1.0 | 200 |
| PGSC-2128A | UL | 1.095 - 1.102 | 27.8 - 28.0 | 0.031 - 0.118 | 0.8 - 3.0 | 1.161 | 29.5 | 0.815 | 20.7 | 0.453 | 11.5 | 0.039 | 1.0 | 200 |

GFA NAS1368 Flip Grommet



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

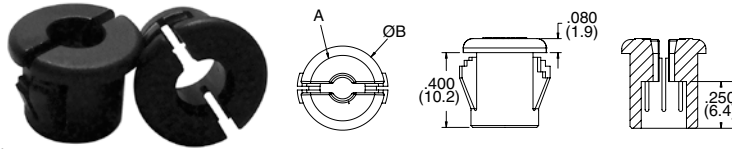
Features:

- Installed by inserting the "un-flipped" grommet into the hole. Forming dies (not supplied by Essentra) on each side of the hole are pressed together until the grommet "flips" over itself, creating a flange on both sides of the hole
- The dies can be attached to a toggle type clamp, a pneumatic tool, or a bolt and nut through the center
- Meets NAS 1368 Standard
- Protects wires, cable, and tubing passing through holes

| Item No. | NAS Part No. | Mounting Hole Ø | | Max Recommended Panel Thickness | | NAS1368 Panel Thickness Range | | T | | A Ref. | | B | | C Ref. | | D | | Bulk Pack Qty. |
|----------|--------------|-----------------|------|---------------------------------|-----|-------------------------------|---------|-------|------|--------|------|-------|------|--------|------|-------|-----|----------------|
| | | In | mm | In | mm | In | mm | In | mm | In | mm | In | mm | In | mm | In | mm | |
| GFA-N4A | NAS1368-N4A | 0.375 | 9.5 | 0.030 | 0.8 | 0.025-0.080 | 0.6-2.0 | 0.235 | 6.0 | 0.567 | 14.4 | 0.367 | 9.3 | 0.251 | 6.4 | 0.058 | 1.5 | 100 |
| GFA-N4B | NAS1368-N4B | 0.375 | 9.5 | 0.100 | 2.5 | 0.081-0.140 | 2.1-3.6 | 0.295 | 7.5 | 0.567 | 14.4 | 0.367 | 9.3 | 0.251 | 6.4 | 0.058 | 1.5 | 100 |
| GFA-N6A | NAS1368-N6A | 0.500 | 12.7 | 0.030 | 0.8 | 0.025-0.080 | 0.6-2.0 | 0.235 | 6.0 | 0.692 | 17.6 | 0.492 | 12.5 | 0.376 | 9.6 | 0.058 | 1.5 | 100 |
| GFA-N6B | NAS1368-N6B | 0.500 | 12.7 | 0.090 | 2.3 | 0.081-0.140 | 2.1-3.6 | 0.295 | 7.5 | 0.692 | 17.6 | 0.492 | 12.5 | 0.376 | 9.6 | 0.058 | 1.5 | 100 |
| GFA-N6C | NAS1368-N6C | 0.500 | 12.7 | 0.160 | 4.1 | 0.141-0.200 | 3.6-5.1 | 0.360 | 9.1 | 0.692 | 17.6 | 0.492 | 12.5 | 0.376 | 9.6 | 0.058 | 1.5 | 100 |
| GFA-N8A | NAS1368-N8A | 0.625 | 15.9 | 0.030 | 0.8 | 0.025-0.080 | 0.6-2.0 | 0.235 | 6.0 | 0.815 | 20.7 | 0.615 | 15.6 | 0.499 | 12.7 | 0.058 | 1.5 | 100 |
| GFA-N8B | NAS1368-N8B | 0.625 | 15.9 | 0.090 | 2.3 | 0.081-0.140 | 2.1-3.6 | 0.295 | 7.5 | 0.815 | 20.7 | 0.615 | 15.6 | 0.499 | 12.7 | 0.058 | 1.5 | 100 |
| GFA-N10A | NAS1368-N10A | 0.781 | 19.8 | 0.030 | 0.8 | 0.025-0.080 | 0.6-2.0 | 0.235 | 6.0 | 0.971 | 24.7 | 0.771 | 19.6 | 0.605 | 15.4 | 0.083 | 2.1 | 100 |
| GFA-N10B | NAS1368-N10B | 0.781 | 19.8 | 0.080 | 2.0 | 0.081-0.140 | 2.1-3.6 | 0.295 | 7.5 | 0.971 | 24.7 | 0.771 | 19.6 | 0.605 | 15.4 | 0.083 | 2.1 | 100 |
| GFA-N10D | NAS1368-N10D | 0.781 | 19.8 | 0.210 | 5.3 | 0.201-0.250 | 5.1-6.4 | 0.420 | 10.7 | 0.971 | 24.7 | 0.771 | 19.6 | 0.605 | 15.4 | 0.083 | 2.1 | 100 |
| GFA-N12A | NAS1368-N12A | 0.906 | 23.0 | 0.020 | 0.5 | 0.025-0.080 | 0.6-2.0 | 0.235 | 6.0 | 1.096 | 27.8 | 0.896 | 22.8 | 0.730 | 18.5 | 0.083 | 2.1 | 100 |
| GFA-N12B | NAS1368-N12B | 0.906 | 23.0 | 0.070 | 1.8 | 0.081-0.140 | 2.1-3.6 | 0.295 | 7.5 | 1.096 | 27.8 | 0.896 | 22.8 | 0.730 | 18.5 | 0.083 | 2.1 | 100 |
| GFA-N14A | NAS1368-N14A | 1.031 | 26.2 | 0.020 | 0.5 | 0.025-0.080 | 0.6-2.0 | 0.235 | 6.0 | 1.221 | 31.0 | 1.021 | 25.9 | 0.855 | 21.7 | 0.083 | 2.1 | 100 |
| GFA-N14B | NAS1368-N14B | 1.031 | 26.2 | 0.070 | 1.8 | 0.081-0.140 | 2.1-3.6 | 0.295 | 7.5 | 1.221 | 31.0 | 1.021 | 25.9 | 0.855 | 21.7 | 0.083 | 2.1 | 100 |



**SB
Snub Bushing**



Specifications:

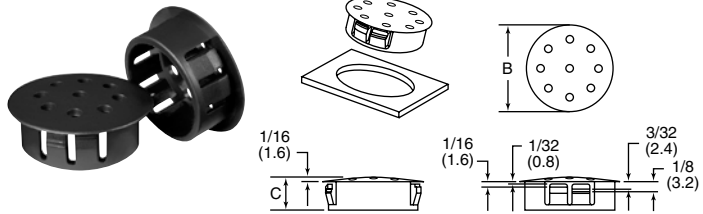
- Material: UL94V-2 Nylon 6/6
- Color: Black

Features:

- Bushing opens to accept cable then closes firmly when installed into hole
- Provides insulation and slight strain relief

| Part Number | Panel Hole | | Max Panel Thickness | | ID | | Ø A | | Overall OD B | | Bulk Pack Qty. |
|-------------|------------|------|---------------------|-----|-------|-----|-------|------|--------------|------|----------------|
| | In | mm | In | mm | In | mm | In | mm | In | mm | |
| SB-1 | 0.375 | 9.5 | 0.125 | 3.2 | 0.150 | 3.8 | 0.360 | 9.1 | 0.450 | 11.4 | 500 |
| SB-2 | 0.437 | 11.1 | 0.125 | 3.2 | 0.220 | 5.6 | 0.430 | 10.9 | 0.550 | 14.0 | 500 |
| SB-3 | 0.500 | 12.7 | 0.125 | 3.2 | 0.280 | 7.1 | 0.490 | 12.4 | 0.630 | 16.0 | 500 |

**PLV
Vented Locking Plug**



Specifications:

- Material: UL94 V-2 Heat-Stabilized Nylon
- Color: Black

Features:

- Each part is designed to lock into multiple standard sheet metal thicknesses (1/64 to 1/8)
- Provides a clean and easy way to close optional wiring or production access holes
- Vents allow heat/emissions to escape

| Item No. | Approvals | Hole Ø | | Max Panel Thickness | | Head Ø B | | Thickness C | | Bulk Pack Qty. |
|----------|-----------|--------|------|---------------------|-----|----------|------|-------------|------|----------------|
| | | In | mm | In | mm | In | mm | In | mm | |
| PLV001A | UL | 0.750 | 19.1 | 0.125 | 3.2 | 0.906 | 23.0 | 0.406 | 10.3 | 1000 |
| PLV002A | UL | 0.875 | 22.2 | 0.125 | 3.2 | 1.016 | 25.8 | 0.453 | 11.5 | 1000 |
| PLV003A | UL | 1.000 | 25.4 | 0.125 | 3.2 | 1.203 | 30.6 | 0.453 | 11.5 | 500 |

**GR67 / LTG
IP67 Liquid Tight Grommet**



Specifications:

- Material: EPDM
- Color: Grey (Black for pn: LTG-199017)

Features:

- Confirms to IP67 standard for watertight seal
- Acts as a blanking plug until cable is installed
- Designed to withstand vibration

| Item No. | Fits | Panel Hole | | Panel Thickness | | Cable Size | | Pack Qty. | Bulk Pack Qty. |
|-------------|-------|------------|------|-----------------|-----------|---------------|-------------|-----------|----------------|
| | | In | mm | In | mm | In | mm | | |
| LTG-199017 | PG-7 | 0.492 | 12.5 | 0.020 - 0.079 | 0.5 - 2.0 | 0.138 - 0.197 | 3.5 - 5.0 | 1 | 1000 |
| GR67464121A | PG-7 | 0.492 | 12.5 | 0.020 - 0.079 | 0.5 - 2.0 | 0.138 - 0.197 | 3.5 - 5.0 | 1 | 1000 |
| GR6739897A | PG-9 | 0.630 | 16.0 | 0.039 - 0.157 | 1.0 - 4.0 | 0.197 - 0.276 | 5.0 - 7.0 | 1 | 1000 |
| GR6734715A | PG-11 | 0.748 | 19.0 | 0.039 - 0.157 | 1.0 - 4.0 | 0.276 - 0.394 | 7.0 - 10.0 | 1 | 1000 |
| GR6734716A | PG-16 | 0.906 | 23.0 | 0.039 - 0.157 | 1.0 - 4.0 | 0.394 - 0.551 | 10.0 - 14.0 | 1 | 1000 |
| GR6743021A | PG-21 | 1.142 | 29.0 | 0.039 - 0.157 | 1.0 - 4.0 | 0.551 - 0.787 | 14.0 - 20.0 | 1 | 1000 |
| GR67464122A | PG-29 | 1.496 | 38.0 | 0.039 - 0.157 | 1.0 - 4.0 | 0.787 - 1.024 | 20.0 - 26.0 | 1 | 250 |
| GR67464123A | PG-36 | 1.890 | 48.0 | 0.039 - 0.157 | 1.0 - 4.0 | 1.024 - 1.378 | 26.0 - 35.0 | 1 | 250 |
| GR67M16A | M16 | 0.650 | 16.5 | 0.039 - 0.157 | 1.0 - 4.0 | 0.197 - 0.354 | 5.0 - 9.0 | 1 | 1000 |
| GR67M20A | M20 | 0.807 | 20.5 | 0.039 - 0.157 | 1.0 - 4.0 | 0.276 - 0.512 | 7.0 - 13.0 | 1 | 1000 |
| GR67M25A | M25 | 1.004 | 25.5 | 0.059 - 0.157 | 1.5 - 4.0 | 0.394 - 0.670 | 10.0 - 17.0 | 1 | 1000 |
| GR67M32A | M32 | 1.280 | 32.5 | 0.039 - 0.157 | 1.0 - 4.0 | 0.551 - 0.787 | 14.0 - 20.0 | 1 | 500 |
| GR67M40A | M40 | 1.594 | 40.5 | 0.059 - 0.157 | 1.5 - 4.0 | 0.750 - 1.024 | 19.0 - 26.0 | 1 | 250 |
| GR67M50A | M50 | 1.988 | 50.5 | 0.039 - 0.157 | 1.0 - 4.0 | 1.024 - 1.338 | 26.0 - 34.0 | 1 | 250 |

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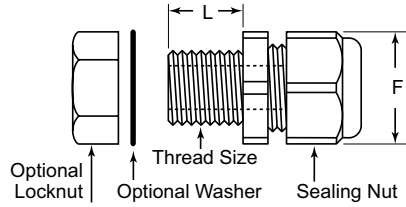


Grommet Straps
Complies with NASM21266





CG
NPT Cable Glands



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: See Table
- Temperature Range: Working -40°F to 221°F (-40°C to 105°C) Intermittent up to 300°F (149°C)

Features:

- Parts designed with AVC – Essentra's variable clamping ranges to fit a wide range of diameters
- IP 68 rated protection – 5 bar
- Provides dust & water-tight performance and strain relief
- EPDM gasket & lock nut are sold separately
- For best results select a gland with the smallest maximum clamping range for your application



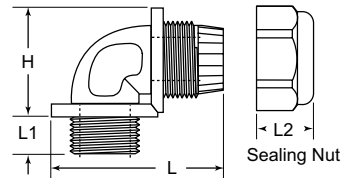
| Item No. | | Thread Size | Mounting Hole | | Mounting Thread | | Flat Sealing Nut | | Variable Clamping Range (Max/Min) | | | Pack Qty. | Bulk Pack Qty. | |
|----------|-------------|-------------|---------------|------|-----------------|------|------------------|------|-----------------------------------|-------|------|-----------|----------------|----|
| Black | Silver Grey | | In | mm | In | mm | In | mm | In | mm | In | | | mm |
| CG050B | CG050G | NPT - 1/4" | 0.524 | 13.3 | 0.354 | 9.0 | 0.748 | 19.0 | 0.307 | 0.177 | 7.8 | 4.5 | 1 | 50 |
| CG175B | CG175G | NPT - 3/8" | 0.681 | 17.3 | 0.512 | 13.0 | 0.866 | 22.0 | 0.394 | 0.236 | 10.0 | 6.0 | 1 | 50 |
| CG225B | CG225G | NPT - 1/2" | 0.848 | 21.6 | 0.512 | 13.0 | 1.063 | 27.0 | 0.433 | 0.276 | 11.0 | 7.0 | 1 | 50 |
| CG275B | CG275G | NPT - 1/2" | 0.848 | 21.6 | 0.512 | 13.0 | 1.063 | 27.0 | 0.551 | 0.354 | 14.0 | 9.0 | 1 | 50 |
| CG325B | CG325G | NPT - 3/4" | 1.047 | 26.6 | 0.472 | 12.0 | 1.063 | 27.0 | 0.433 | 0.276 | 11.0 | 7.0 | 1 | 50 |
| CG350B | CG350G | NPT - 3/4" | 1.061 | 27.0 | 0.591 | 15.0 | 1.299 | 33.0 | 0.630 | 0.472 | 16.0 | 12.0 | 1 | 50 |
| CG375B | CG375G | NPT - 3/4" | 1.061 | 27.0 | 0.591 | 15.0 | 1.299 | 33.0 | 0.709 | 0.551 | 18.0 | 14.0 | 1 | 50 |
| CG425B | CG425G | NPT - 1" | 1.325 | 33.7 | 0.669 | 17.0 | 1.654 | 42.0 | 0.866 | 0.630 | 22.0 | 16.0 | 1 | 10 |
| CG450B | CG450G | NPT - 1" | 1.325 | 33.7 | 0.669 | 17.0 | 1.654 | 42.0 | 0.984 | 0.709 | 25.0 | 18.0 | 1 | 10 |

Optional Parts

| LNPT - NPT Locknuts | | | | | | |
|---------------------|-------------|-------------|--------------|------|-----------|----------------|
| Locknut Item No. | | Thread Size | Flat Locknut | | Pack Qty. | Bulk Pack Qty. |
| Black | Silver Grey | | In | mm | | |
| LNPT050B | LNPT050G | NPT - 1/4" | 0.748 | 19.0 | 1 | 50 |
| LNPT100B | LNPT100G | NPT - 3/8" | 0.866 | 22.0 | 1 | 50 |
| LNPT200B | LNPT200G | NPT - 1/2" | 1.063 | 27.0 | 1 | 50 |
| LNPT300B | LNPT300G | NPT - 3/4" | 1.299 | 33.0 | 1 | 50 |
| LNPT400B | LNPT400G | NPT - 1" | 1.654 | 42.0 | 1 | 10 |

| CGW - Sealing Washers | | | |
|-------------------------|-----------------|-----------|----------------|
| Sealing Gasket Item No. | For Thread Size | Pack Qty. | Bulk Pack Qty. |
| CGW050A | NPT-1/2" | 1 | 50 |
| CGW100A | NPT-3/8" | 1 | 50 |
| CGW200A | NPT-1/2" | 1 | 50 |
| CGW300A | NPT-3/4" | 1 | 50 |
| CGW400A | NPT-1" | 1 | 10 |

CGRA
90° NPT Cable Glands



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Black
- Temperature Range: Working -40°F to 221°F (-40°C to 105°C) Intermittent up to 300°F (149°C)

Features:

- IP 68 rated protection: 5 bar
- Provides dust & water-tight performance and strain relief
- EPDM gasket & lock nut are sold separately

Optional Parts

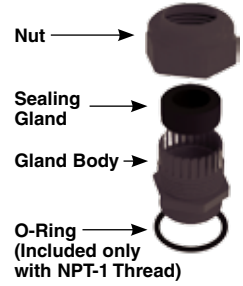
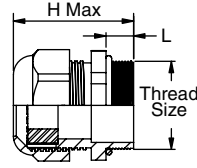
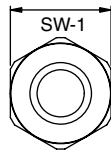
| LNPT - NPT Locknuts | | | |
|---------------------|------------|-----------|----------------|
| Locknut Item No. | NPT Thread | Pack Qty. | Bulk Pack Qty. |
| LNPT100B | 3/8" | 1 | 50 |
| LNPT200B | 1/2" | 1 | 50 |
| LNPT300B | 3/4" | 1 | 50 |
| LNPT005B | 1-1/4" | 1 | 10 |

| Item No. | NPT Thread | Mounting Hole | Overall Length L | | Mounting Thread L1 | | Nut Length L2 | | Overall Height H | | Variable Clamping Range (Max/Min) | | | Pack Qty. | Bulk Pack Qty. |
|----------|------------|---------------|------------------|------|--------------------|------|---------------|------|------------------|------|-----------------------------------|-------------|----|-----------|----------------|
| | | | In | mm | In | mm | In | mm | In | mm | In | mm | In | | |
| CGRA011A | 3/8" | 0.687 | 1.909 | 48.5 | 0.461 | 11.7 | 0.657 | 16.7 | 1.181 | 30.0 | 0.197 - 0.354 | 5.0 - 8.0 | 1 | 20 | |
| CGRA015A | 1/2" | 0.875 | 2.031 | 51.6 | 0.579 | 14.7 | 0.724 | 18.4 | 1.228 | 31.2 | 0.393 - 0.512 | 10.0 - 13.0 | 1 | 20 | |
| CGRA018A | 3/4" | 1.0625 | 2.539 | 64.5 | 0.583 | 14.8 | 0.878 | 22.3 | 1.638 | 41.6 | 0.512 - 0.630 | 13.0 - 16.0 | 1 | 20 | |
| CGRA020A | 1-1/4" | 1.687 | 3.346 | 85.0 | 0.740 | 18.8 | 1.220 | 31.0 | 2.087 | 53.0 | 0.866 - 1.412 | 22.0 - 29.0 | 1 | 10 | |



CABLE GLANDS

CG-NPT NPT Cable Gland



Specifications:

- Material: Body and Nut: UL94 V-2 Nylon 6
Sealing Gland: CR / NBR
O-Ring: NBR
- Color: Black
- Material: Optional CGLN Locking Nut:
UL94 V-2 Glass Filled Nylon 6
- Color: Black

Features:

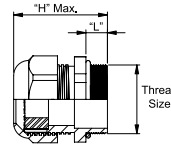
- Protection Class: IP68 - 5 Bar
- Designed for superior sealing; no O-ring is needed for smaller sizes to meet IP68 rating
- Operating temperature: -4°F - 212°F (-20°C -100°C)

| Item No. | UL Approval | Cable Ø Range Min | | Cable Ø Range Max | | Mounting Hole | | L | | SW-1 | | H Max Ref. | | Pack Qty. | Bulk Pack Qty. | |
|-----------------|-------------|-------------------|------|-------------------|------|---------------|-------|------|-------|------|-------|------------|-------|-----------|----------------|-----|
| | | In | mm | In | mm | In | mm | In | mm | In | mm | In | mm | | | |
| CG-NPT-3/8-1-BK | | 0.118 | 3.0 | 0.276 | 7.0 | NPT-3/8 | 0.670 | 17.0 | 0.571 | 14.5 | 0.866 | 22.0 | 1.750 | 44.5 | 1 | 100 |
| CG-NPT-3/8-2-BK | | 0.197 | 5.0 | 0.394 | 10.0 | NPT-3/8 | 0.670 | 17.0 | 0.571 | 14.5 | 0.866 | 22.0 | 1.750 | 44.5 | 1 | 100 |
| CG-NPT-1/2-1-BK | | 0.197 | 5.0 | 0.236 | 9.0 | NPT-1/2 | 0.875 | 22.2 | 0.571 | 14.5 | 0.945 | 24.0 | 1.770 | 45.0 | 1 | 100 |
| CG-NPT-1/2-2-BK | | 0.276 | 7.0 | 0.472 | 12.0 | NPT-1/2 | 0.875 | 22.2 | 0.591 | 15.0 | 1.063 | 27.0 | 1.870 | 47.5 | 1 | 100 |
| CG-NPT-1/2-3-BK | | 0.394 | 10.0 | 0.551 | 14.0 | NPT-1/2 | 0.875 | 22.2 | 0.591 | 15.0 | 1.063 | 27.0 | 1.870 | 47.5 | 1 | 100 |
| CG-NPT-3/4-1-BK | | 0.236 | 9.0 | 0.630 | 16.0 | NPT-3/4 | 1.068 | 27.1 | 0.591 | 15.0 | 1.299 | 33.0 | 2.050 | 52.0 | 1 | 50 |
| CG-NPT-3/4-1-BK | | 0.551 | 14.0 | 0.709 | 18.0 | NPT-3/4 | 1.068 | 27.1 | 0.591 | 15.0 | 1.299 | 33.0 | 2.050 | 52.0 | 1 | 50 |
| CG-NPT-1-1-BK | | 0.472 | 12.0 | 0.787 | 20.0 | NPT-1 | 1.350 | 34.3 | 0.709 | 18.0 | 1.654 | 42.0 | 2.380 | 60.5 | 1 | 25 |
| CG-NPT-1-1-BK | | 0.748 | 19.0 | 0.984 | 25.0 | NPT-1 | 1.350 | 34.3 | 0.709 | 18.0 | 1.654 | 42.0 | 2.380 | 60.5 | 1 | 25 |

Optional Parts

| Item No. | Thread Size | Across Flats | | Thickness | | Pack Qty. | Bulk Pack Qty. |
|-----------------|-------------|--------------|------|-----------|-----|-----------|----------------|
| | | In | mm | In | mm | | |
| CGLN-NPT-3/8-BK | NPT-3/8 | 0.866 | 22.0 | 0.197 | 5.0 | 1 | 100 |
| CGLN-NPT-1/2-BK | NPT-1/2 | 1.063 | 27.0 | 0.236 | 6.0 | 1 | 100 |
| CGLN-NPT-3/4-BK | NPT-3/4 | 1.417 | 36.0 | 0.276 | 7.0 | 1 | 100 |
| CGLN-NPT-1-BK | NPT-1 | 1.654 | 42.0 | 0.276 | 7.0 | 1 | 100 |

CGPG PG Cable Gland



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: See Table
- Temperature Range: Working -40°F to 221°F (-40°C to 105°C) Intermittent up to 300°F (149°C)

Features:

- Parts designed with AVC – Essentra's variable clamping ranges to fit a wide range of diameters
- IP 68 rated protection – 5 bar
- Provides dust & water-tight performance and strain relief
- EPDM gasket & lock nut are sold separately



| Item No. | | Thread Size | Mounting Hole | | Mounting Thread L | | Flat Sealing Nut F | | Variable Clamping Range (Max/Min) | | | Pack Qty. | Bulk Pack Qty. | |
|----------|-------------|-------------|---------------|------|-------------------|------|--------------------|----|-----------------------------------|-------|------|-----------|----------------|----|
| Black | Silver Grey | | In | mm | In | mm | In | mm | In | mm | mm | | | |
| CGPG150B | CGPG150G | PG7 | 0.492 | 12.5 | 0.335 | 8.50 | 0.748 | 19 | 0.307 | 0.177 | 7.80 | 4.50 | 1 | 50 |
| CGPG250B | CGPG250G | PG9 | 0.598 | 15.2 | 0.354 | 9.00 | 0.748 | 19 | 0.307 | 0.177 | 7.80 | 4.50 | 1 | 50 |
| CGPG350B | CGPG350G | PG11 | 0.732 | 18.6 | 0.394 | 10.0 | 0.866 | 22 | 0.394 | 0.236 | 10.0 | 6.00 | 1 | 50 |
| CGPG450B | CGPG450G | PG13.5 | 0.803 | 20.4 | 0.394 | 10.0 | 0.945 | 24 | 0.472 | 0.276 | 12.0 | 7.00 | 1 | 50 |
| CGPG550B | CGPG550G | PG16 | 0.886 | 22.5 | 0.433 | 11.0 | 1.457 | 37 | 0.551 | 0.354 | 14.0 | 9.00 | 1 | 50 |
| CGPG650B | CGPG650G | PG21 | 1.114 | 28.3 | 0.492 | 12.5 | 1.299 | 33 | 0.709 | 0.551 | 18.0 | 14.00 | 1 | 50 |
| CGPG750B | CGPG750G | PG29 | 1.469 | 37.3 | 0.472 | 12.0 | 1.654 | 42 | 0.984 | 0.709 | 25.0 | 18.0 | 1 | 10 |

Optional Parts

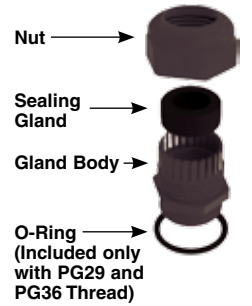
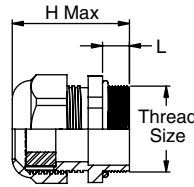
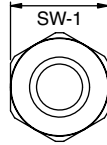
| LNPG – PG Locknuts | | | | | | Pack Qty. | Bulk Pack Qty. |
|---------------------|-------------|-------------|---------------|------|----|-----------|----------------|
| Locknut Part Number | | Thread Size | Flats Locknut | | In | | |
| Black | Silver Gray | | In | mm | | In | |
| LNPG100B | LNPG100G | PG7 | 0.669 | 17.0 | 1 | 50 | |
| LNPG200B | LNPG200G | PG9 | 0.866 | 22.0 | 1 | 50 | |
| LNPG300B | LNPG300G | PG11 | 0.945 | 24.0 | 1 | 50 | |
| LNPG400B | LNPG400G | PG13.5 | 1.063 | 27.0 | 1 | 50 | |
| LNPG500B | LNPG500G | PG16 | 1.181 | 30.0 | 1 | 50 | |
| LNPG600B | LNPG600G | PG21 | 1.417 | 36.0 | 1 | 50 | |
| LNPG700B | LNPG700G | PG29 | 1.811 | 46.0 | 1 | 10 | |

| CGPW – Sealing Washers | | | |
|----------------------------|-------------|-----------|----------------|
| Sealing Gasket Part Number | Thread Size | Pack Qty. | Bulk Pack Qty. |
| CGPW100A | PG7 | 1 | 50 |
| CGPW200A | PG9 | 1 | 50 |
| CGPW300A | PG11 | 1 | 50 |
| CGPW400A | PG13.5 | 1 | 50 |
| CGPW500A | PG16 | 1 | 50 |
| CGPW600A | PG21 | 1 | 50 |
| CGPW700A | PG29 | 1 | 10 |

CABLE GLANDS



CG-PG
PG Cable Gland



Specifications:

- Material: Body and Nut: UL94 V-2 Nylon 6
Sealing Gland: CR / NBR
O-Ring: NBR
- Color: Black
- Material: Optional CGLN Locking Nut:
UL94 V-2 Glass Filled Nylon 6
- Color: Black
- Operating temperature: -4°F - 212°F (-20°C -100°C)

Optional Parts

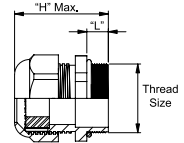
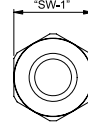
| Item No. | Thread Size | Locking Nuts | | | | Pack Qty. | Bulk Pack Qty. |
|----------------|-------------|--------------|------|-----------|-----|-----------|----------------|
| | | Across Flats | | Thickness | | | |
| | | In | mm | In | mm | | |
| CGLN-PG7-BK | PG7 | 0.748 | 19.0 | 0.197 | 5.0 | 1 | 100 |
| CGLN-PG9-BK | PG9 | 0.866 | 22.0 | 0.197 | 5.0 | 1 | 100 |
| CGLN-PG11-BK | PG11 | 0.945 | 24.0 | 0.197 | 5.0 | 1 | 100 |
| CGLN-PG13.5-BK | PG13.5 | 1.063 | 27.0 | 0.236 | 6.0 | 1 | 100 |
| CGLN-PG16-BK | PG16 | 1.181 | 30.0 | 0.236 | 6.0 | 1 | 100 |
| CGLN-PG21-BK | PG21 | 1.417 | 36.0 | 0.276 | 7.0 | 1 | 100 |
| CGLN-PG29-BK | PG29 | 1.811 | 46.0 | 0.276 | 7.0 | 1 | 100 |
| CGLN-PG36-BK | PG36 | 2.362 | 60.0 | 0.315 | 8.0 | 1 | 50 |

Features:

- Protection Class: IP68 - 5 Bar
- Designed for superior sealing; no O-ring needed for smaller sizes to meet IP68 rating

| Item No. | UL Approval | Cable Ø Range Min | | Cable Ø Range Max | | Thread Size | Mounting Hole | | L | | SW-1 | | H Max Ref. | | Pack Qty. | Bulk Pack Qty. |
|----------------|-------------|-------------------|------|-------------------|------|-------------|---------------|------|-------|------|-------|------|------------|------|-----------|----------------|
| | | In | mm | In | mm | | In | mm | In | mm | In | mm | In | mm | | |
| CG-PG7-1-BK | UL | 0.079 | 2.0 | 0.197 | 5.0 | PG7 | 0.500 | 12.7 | 0.315 | 8.0 | 0.591 | 15.0 | 1.201 | 30.5 | 1 | 100 |
| CG-PG7-2-BK | UL | 0.118 | 3.0 | 0.256 | 6.5 | PG7 | 0.500 | 12.7 | 0.315 | 8.0 | 0.591 | 15.0 | 1.201 | 30.5 | 1 | 100 |
| CG-PG9-1-BK | UL | 0.079 | 2.0 | 0.236 | 6.0 | PG9 | 0.606 | 15.4 | 0.315 | 8.0 | 0.748 | 19.0 | 1.339 | 34.0 | 1 | 100 |
| CG-PG9-2-BK | UL | 0.157 | 4.0 | 0.315 | 8.0 | PG9 | 0.606 | 15.4 | 0.315 | 8.0 | 0.748 | 19.0 | 1.339 | 34.0 | 1 | 100 |
| CG-PG11-1-BK | UL | 0.118 | 3.0 | 0.276 | 7.0 | PG11 | 0.740 | 18.8 | 0.315 | 8.0 | 0.866 | 22.0 | 1.457 | 37.0 | 1 | 100 |
| CG-PG11-2-BK | UL | 0.197 | 5.0 | 0.394 | 10.0 | PG11 | 0.740 | 18.8 | 0.315 | 8.0 | 0.866 | 22.0 | 1.457 | 37.0 | 1 | 100 |
| CG-PG13.5-1-BK | UL | 0.236 | 6.0 | 0.472 | 12.0 | PG13.5 | 0.815 | 20.7 | 0.354 | 9.0 | 0.945 | 24.0 | 1.535 | 39.0 | 1 | 100 |
| CG-PG16-1-BK | UL | 0.394 | 10.0 | 0.551 | 14.0 | PG16 | 0.898 | 22.8 | 0.394 | 10.0 | 1.063 | 27.0 | 1.673 | 42.5 | 1 | 50 |
| CG-PG21-1-BK | UL | 0.236 | 9.0 | 0.630 | 16.0 | PG21 | 1.126 | 28.6 | 0.433 | 11.0 | 1.299 | 33.0 | 1.870 | 47.5 | 1 | 50 |
| CG-PG21-2-BK | UL | 0.512 | 13.0 | 0.709 | 18.0 | PG21 | 1.126 | 28.6 | 0.433 | 11.0 | 1.299 | 33.0 | 1.870 | 47.5 | 1 | 50 |
| CG-PG29-1-BK | UL | 0.472 | 12.0 | 0.787 | 20.0 | PG29 | 1.472 | 37.4 | 0.433 | 11.0 | 1.654 | 42.0 | 2.087 | 53.0 | 1 | 25 |
| CG-PG36-1-BK | UL | 0.787 | 20.0 | 1.024 | 26.0 | PG36 | 1.870 | 47.5 | 0.512 | 13.0 | 2.087 | 53.0 | 2.402 | 61.0 | 1 | 10 |
| CG-PG36-2-BK | UL | 0.866 | 22.0 | 1.260 | 32.0 | PG36 | 1.870 | 47.5 | 0.512 | 13.0 | 2.087 | 53.0 | 2.402 | 61.0 | 1 | 10 |

CGM
Metric Cable Gland



Specifications:

- Material: UL 94V-2 Nylon 6/6
- Colors: See Table
- Temperature Range: Working -40°F to 221°F (-40°C to 105°C) Intermittent up to 300°F (149°C)

Features:

- Parts designed with AVC – Essentra's variable clamping ranges to fit a wide range of diameters
- IP 68 rated protection: 5 bar
- Provides dust & water-tight performance and strain relief
- EPDM gasket & lock nut are sold separately
- For best results select a gland with the smallest maximum clamping range for your application



| Item No. | | | Mounting Hole | | Mounting Thread L | | Flat Sealing Nut F | | Variable Clamping Range (Max/Min) | | | | Pack Qty. | Bulk Pack Qty. |
|----------|---------|-------------|---------------|------|-------------------|------|--------------------|------|-----------------------------------|-------|------|------|-----------|----------------|
| | Black | Silver Grey | In | mm | In | mm | In | mm | In | mm | In | mm | | |
| CGM150B | CGM150G | M12 X 1.5 | 0.472 | 12.0 | 0.354 | 9.00 | 0.748 | 19.0 | 0.307 | 0.177 | 7.80 | 4.50 | 1 | 50 |
| CGM250B | CGM250G | M16 X 1.5 | 0.630 | 16.0 | 0.394 | 10.0 | 0.748 | 19.0 | 0.307 | 0.177 | 7.80 | 4.50 | 1 | 50 |
| CGM325B | CGM325G | M20 X 1.5 | 0.787 | 20.0 | 0.394 | 10.0 | 0.866 | 22.0 | 0.394 | 0.236 | 10.0 | 6.00 | 1 | 50 |
| CGM350B | CGM350G | M20 X 1.5 | 0.787 | 20.0 | 0.394 | 10.0 | 1.063 | 27.0 | 0.551 | 0.354 | 14.0 | 9.00 | 1 | 50 |
| CGM425B | CGM425G | M25 X 1.5 | 0.984 | 25.0 | 0.472 | 12.0 | 1.063 | 27.0 | 0.551 | 0.354 | 14.0 | 9.00 | 1 | 50 |
| CGM450B | CGM450G | M25 X 1.5 | 0.984 | 25.0 | 0.591 | 15.0 | 1.299 | 33.0 | 0.709 | 0.551 | 18.0 | 14.0 | 1 | 50 |
| CGM550B | CGM550G | M32 X 1.5 | 1.260 | 32.0 | 0.591 | 15.0 | 1.654 | 42.0 | 0.866 | 0.630 | 22.0 | 16.0 | 1 | 10 |

Optional Parts

| LNM – Metric Locknuts | | | | | | |
|-----------------------|-------------|---------------|-------|-----------|----------------|----|
| Locknut Part Number | | Flats Locknut | | Pack Qty. | Bulk Pack Qty. | |
| Black | Silver Gray | Thread Size | In | | | |
| LNM100B | LNM100G | M12 X 1.5 | 0.709 | 18 | 1 | 50 |
| LNM200B | LNM200G | M16 X 1.5 | 0.866 | 22 | 1 | 50 |
| LNM300B | LNM300G | M20 X 1.5 | 0.945 | 24 | 1 | 50 |
| LNM400B | LNM400G | M25 X 1.5 | 1.299 | 33 | 1 | 50 |
| LNM500B | LNM500G | M32 X 1.5 | 1.614 | 41 | 1 | 10 |

| CGMW – Sealing Washers | | | |
|----------------------------|-------------|-----------|----------------|
| Sealing Gasket Part Number | Thread Size | Pack Qty. | Bulk Pack Qty. |
| CGMW100A | M12 | 1 | 50 |
| CGMW200A | M16 | 1 | 50 |
| CGMW300A | M20 | 1 | 50 |
| CGMW400A | M25 | 1 | 50 |
| CGMW500A | M32 | 1 | 10 |



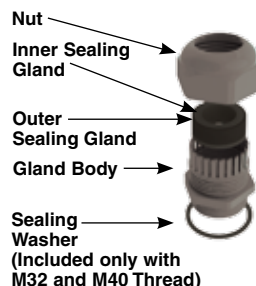
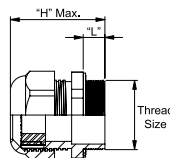
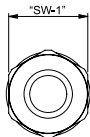
CABLE GLANDS & PANEL HOLE PLUGS

CG-M Cable Gland – Metric Thread



Specifications:

- Material: Body and Nut: UL94 V-2 Nylon 6
- Sealing Gland: CR / NBR
- O-Ring: NBR
- Color: Black
- Material: Optional CGLN Locking Nut: UL94 V-2 Glass Filled Nylon 6
- Color: Black



Features:

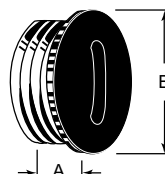
- Protection Class: IP68 - 5 Bar
- Designed for superior sealing; no Sealing Washer is needed for smaller sizes to meet IP68 rating
- Two Sealing Glands are included with all but the M12 thread. Remove the inner sealing gland for larger cable diameters

| Item No. | UL Approval | Cable Ø Range Min | | Cable Ø Range Max | | Thread Size | Mounting Hole | | L | | SW-1 | | H Max Ref. | | Pack Qty. | Bulk Pack Qty. |
|-------------|-------------|-------------------|-----|-------------------|------|-------------|---------------|------|-------|------|-------|------|------------|------|-----------|----------------|
| | | In | mm | In | mm | | In | mm | In | mm | In | mm | In | mm | | |
| CG-M12-1-BK | UL | 0.079 | 2.0 | 0.197 | 5.0 | M12 | 0.480 | 12.2 | 0.315 | 8.0 | 0.591 | 15.0 | 1.220 | 31.0 | 1 | 100 |
| CG-M16-1-BK | UL | 0.118 | 3.0 | 0.394 | 10.0 | M16 | 0.638 | 16.2 | 0.315 | 8.0 | 0.787 | 20.0 | 1.398 | 35.5 | 1 | 100 |
| CG-M20-1-BK | UL | 0.197 | 5.0 | 0.512 | 13.0 | M20 | 0.795 | 20.2 | 0.315 | 8.0 | 0.945 | 24.0 | 1.417 | 36.0 | 1 | 100 |
| CG-M25-1-BK | UL | 0.315 | 8.0 | 0.669 | 17.0 | M25 | 0.992 | 25.2 | 0.315 | 8.0 | 1.142 | 29.0 | 1.623 | 43.0 | 1 | 50 |
| CG-M32-1-BK | UL | 0.472 | 12 | 0.827 | 21.0 | M32 | 1.268 | 32.2 | 0.394 | 10.0 | 1.417 | 36.0 | 1.968 | 50.0 | 1 | 25 |
| CG-M40-1-BK | UL | 0.630 | 16 | 1.102 | 28.0 | M40 | 1.583 | 40.2 | 0.394 | 10.0 | 1.811 | 46.0 | 2.008 | 51.0 | 1 | 10 |

Optional Parts

| Item No. | Thread Size | Across Flats | | Thickness | | Pack Qty. | Bulk Pack Qty. |
|-------------|-------------|--------------|------|-----------|-----|-----------|----------------|
| | | In | mm | In | mm | | |
| CGLN-M12-BK | M12 | 0.339 | 17.0 | 0.197 | 5.0 | 1 | 100 |
| CGLN-M16-BK | M16 | 0.866 | 22.0 | 0.197 | 5.0 | 1 | 100 |
| CGLN-M20-BK | M20 | 1.063 | 27.0 | 0.236 | 6.0 | 1 | 100 |
| CGLN-M25-BK | M25 | 1.260 | 32.0 | 0.236 | 6.0 | 1 | 100 |
| CGLN-M32-BK | M32 | 1.614 | 41.0 | 0.276 | 7.0 | 1 | 100 |
| CGLN-M40-BK | M40 | 1.969 | 50.0 | 0.276 | 7.0 | 1 | 50 |

TBP Metric & PG Threaded Blind Plug



Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Black
- Temperature Range: Working -40°F to 221°F (-40°C to 105°C) Intermittent up to 300°F (149°C)

Features:

- Used to give water tight protection to spare holes that need to be closed off
- Optional: Use locknuts for closing holes without a thread

| Item No. | Thread Size | A | | B Ø | | Bulk Pack Qty. | Optional: LockNuts |
|----------|-------------|-------|-------|-------|-------|----------------|--------------------|
| | | In | mm | In | mm | | |
| TBP02A | M12 x 1.5 | 0.256 | 6.50 | 0.630 | 16.00 | 100 | LNM100B |
| TBP04A | M16 x 1.5 | 0.315 | 8.00 | 0.787 | 20.00 | 100 | LNM200B |
| TBP06A | M20 x 1.5 | 0.315 | 8.00 | 0.984 | 25.00 | 100 | LNM300B |
| TBP08A | M25 x 1.5 | 0.335 | 8.50 | 1.181 | 30.00 | 100 | LNM400B |
| TBP10A | M32 x 1.5 | 0.394 | 10.00 | 1.496 | 38.00 | 50 | LNM500B |
| TBP12A | M40 x 1.5 | 0.512 | 13.00 | 1.850 | 47.00 | 50 | — |
| TBP14A | M50 x 1.5 | 0.551 | 14.00 | 2.244 | 57.00 | 10 | — |
| TBP16A | M63 x 1.5 | 0.591 | 15.00 | 2.756 | 70.00 | 10 | — |
| TBP50A | PG7 | 0.256 | 6.50 | 0.630 | 16.00 | 100 | LNPG100B |
| TBP52A | PG9 | 0.256 | 6.50 | 0.748 | 19.00 | 100 | LNPG200B |
| TBP54A | PG11 | 0.256 | 6.50 | 0.886 | 22.50 | 100 | LNPG300B |
| TBP56A | PG13.5 | 0.276 | 7.00 | 0.992 | 25.20 | 100 | LNPG400B |
| TBP58A | PG16 | 0.315 | 8.00 | 1.083 | 27.50 | 100 | LNPG500B |
| TBP60A | PG21 | 0.354 | 9.00 | 1.339 | 34.00 | 100 | LNPG600B |
| TBP62A | PG29 | 0.335 | 8.50 | 1.756 | 44.60 | 50 | LNPG700B |
| TBP64A | PG36 | 0.433 | 11.00 | 2.165 | 55.00 | 50 | — |

Optional Parts

| Item No. | Thread Size | Across Flats | | Bulk Pack Qty. |
|----------|-------------|--------------|-------|----------------|
| | | In | mm | |
| LNM100B | M12 X 1.5 | 0.709 | 18.00 | 50 |
| LNM200B | M16 X 1.5 | 0.866 | 22.00 | 50 |
| LNM300B | M20 X 1.5 | 0.945 | 24.00 | 50 |
| LNM400B | M25 X 1.5 | 1.299 | 33.00 | 50 |
| LNM500B | M32 X 1.5 | 1.614 | 41.00 | 10 |
| LNPG100B | PG7 | 0.669 | 17.00 | 50 |
| LNPG200B | PG9 | 0.866 | 22.00 | 50 |
| LNPG300B | PG11 | 0.945 | 24.00 | 50 |
| LNPG400B | PG13.5 | 1.063 | 27.00 | 50 |
| LNPG500B | PG16 | 1.181 | 30.00 | 50 |
| LNPG600B | PG21 | 1.417 | 36.00 | 50 |
| LNPG700B | PG29 | 1.811 | 46.00 | 10 |



EHWSE / EWSE / EWSJS
Edge Wire Saddle

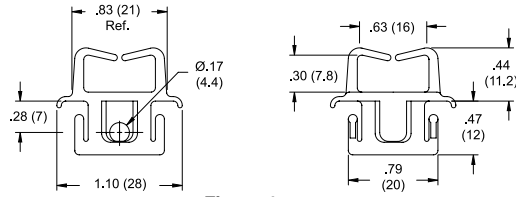
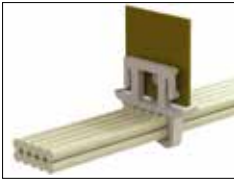
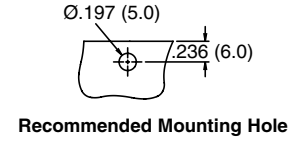


Figure 1



Recommended Mounting Hole

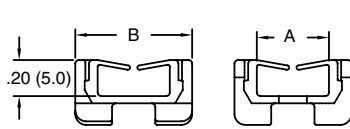
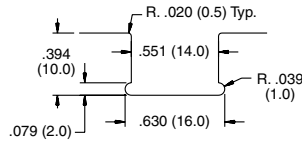


Figure 2



Recommended Panel Cut-Out

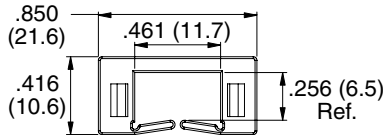
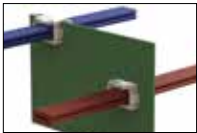
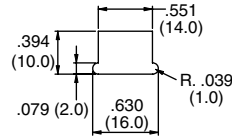
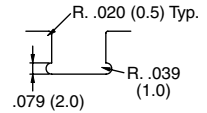


Figure 3



Thru Hole Panel Cut-Out



Edge Hole Panel Cut-Out

Specifications:

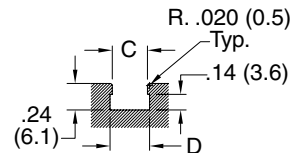
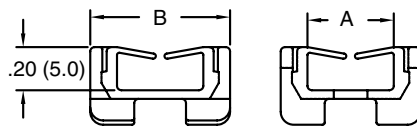
- Material: UL94 V-2 Nylon 6/6
- Color: See Table

Features:

- Mounts vertically or horizontally
- Routes cables and protects wires from sharp edges

| Item No. | Figure | Approval | Color | Panel Thickness | | Depth | | Bulk Pack Qty. |
|------------|--------|----------|---------|-----------------|-----------|-------|-----|----------------|
| | | | | In | mm | In | mm | |
| EHWSE-1-01 | 1 | | Natural | 0.039 - 0.079 | 1.0 - 2.0 | 0.240 | 6.2 | 1000 |
| EWSE-1-01 | 2 | | Black | 0.032 - 0.078 | 0.8 - 1.2 | 0.190 | 4.8 | 1000 |
| EWSE-2-01 | 2 | | Natural | 0.047 - 0.063 | 1.2 - 1.6 | 0.190 | 4.8 | 1000 |
| EWSJS-3-01 | 2 | | Grey | 0.063 - 0.079 | 1.6 - 2.0 | 0.190 | 4.8 | 1000 |
| EWSJS-1-01 | 3 | — | Natural | 0.032 - 0.078 | 0.8 - 2.0 | 0.260 | 6.6 | 1000 |

EWSE
Edge Wire Saddle



Recommended Panel Cut-Out

Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Snaps into cutout on the board
- Routes cables and protects wires from sharp edges

| Item No. | UL Approval | Panel Thickness | | A | | B | | C | | D | | Depth | | Bulk Pack Qty. |
|--------------|-------------|-----------------|-----------|-------|------|-------|------|-------|------|-------|------|-------|-----|----------------|
| | | In | mm | In | mm | In | mm | In | mm | In | mm | In | mm | |
| EWSE-12.8-01 | | 0.031 - 0.063 | 0.8 - 1.6 | 0.200 | 5.0 | 0.440 | 11.3 | 0.320 | 8.1 | 0.360 | 9.1 | 0.140 | 3.6 | 1000 |
| EWSE-8.1-01 | | 0.031 - 0.063 | 0.8 - 1.6 | 0.390 | 10.0 | 0.640 | 16.2 | 0.500 | 12.8 | 0.540 | 13.8 | 0.140 | 3.6 | 1000 |



EDGE WIRE SADDLES & GROMMET EDGING

HEWSE Hinged Edge Wire Saddle

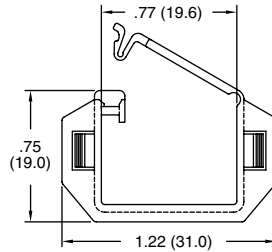


Figure 1

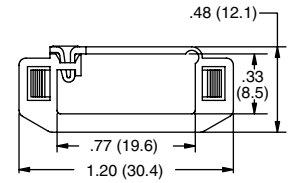


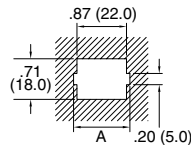
Figure 2

Specifications:

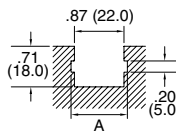
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

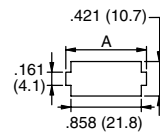
- Routes cables and protects them from sharp edges
- Installed in a mounting slot; edge or through-hole
- Hinged latch allows retrofitting into pre-existing applications



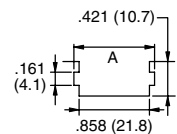
Thru Hole Panel Cut-Out



Edge Hole Panel Cut-Out



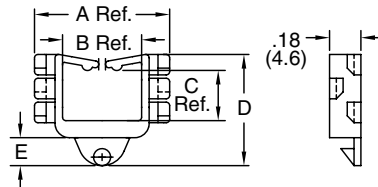
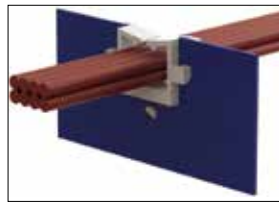
Thru Hole Panel Cut-Out



Edge Hole Panel Cut-Out

| Item No. | Figure | Panel Thickness | | A | | Depth | | Bulk Pack Qty. |
|-------------|--------|-----------------|-----------|-------|------|-------|-----|----------------|
| | | In | mm | In | mm | In | mm | |
| HEWSE-22-01 | 1 | 0.020 - 0.063 | 0.5 - 1.6 | 0.980 | 25.0 | 0.260 | 6.6 | 1000 |
| HEWSE-25-01 | 2 | 0.031 - 0.063 | 0.8 - 1.6 | 0.980 | 25.0 | 0.260 | 6.6 | 1000 |
| HEWSE-25-01 | 2 | 0.079 | 2.0 | 1.020 | 26.0 | 0.260 | 6.6 | 1000 |

LEWSE Edge Wire Saddle

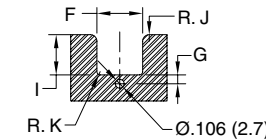


Specifications:

- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Locking pin in mounting base provides firm grip to the board
- Protects wires from sharp edges
- Available in four different sizes



Recommended Panel Cut-Out

| Item No. | Panel Thickness | A Ref. In | B Ref. In | C Ref. In | D In | E In | F In | I In | G In | R. J In | R. K In | Bulk Pack Qty. |
|-------------|-----------------|-----------|-----------|-----------|-------|-------|--------|-------|-------|---------|---------|----------------|
| LEWSE-14-01 | 0.031-0.063 | 0.780 | 0.460 | 0.290 | 0.640 | 0.160 | 0.551 | 0.484 | 0.106 | 0.079 | 0.039 | 1000 |
| LEWSE-19-01 | 0.031-0.063 | 1.060 | 0.660 | 0.590 | 0.980 | 0.150 | 0.756 | 0.831 | 0.100 | 0.079 | 0.039 | 1000 |
| LEWSE-21-01 | 0.031-0.063 | 1.130 | 0.660 | 0.580 | 0.980 | 0.150 | 0.827 | 0.827 | 0.100 | 0.079 | 0.060 | 1000 |
| LEWSE-27-01 | 0.031-0.063 | 1.370 | 0.900 | 0.910 | 1.310 | 0.120 | 10.630 | 1.140 | 0.106 | 0.079 | 0.060 | 1000 |

MCCG Metal Cushioned Grommet

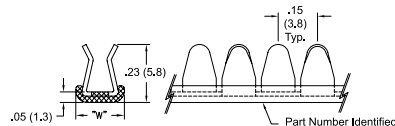


Figure 1

Specifications:

- Material: 304 Stainless Steel, Coated with Black Nylon 1
- Cushion: UL94 V-0 TPE (60 Shore D)
- Temperature Rating: -40°F (-40°C) to 285°F (140°C)
- The MCCGF is the more flexible of the two due to the design

Features:

- Dielectric Strength: 1500 volts @ 60Hz
- Flexible polymer cushion gives additional abrasion protection
- Flexible polymer cushion give additional abrasion protection
- Sold in 100 foot reels that can be cut to length using metal shears Item No. MCGS-1

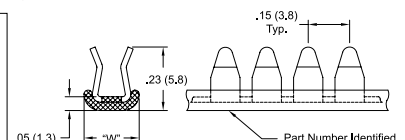


Figure 2

| Item No. | Figure 1 | Figure 2 | Approval | Fits Panel Thickness | | Width W | | Roll Length |
|----------|----------|----------|----------|----------------------|-----------|---------|-----|-------------|
| | | | | In | mm | In | mm | ft |
| MCCG-1N | MCCGF-1N | | | 0.029 - 0.045 | 0.7 - 1.1 | 0.190 | 4.8 | 100 |
| MCCG-2N | MCCGF-2N | | | 0.044 - 0.056 | 1.1 - 1.4 | 0.190 | 4.8 | 100 |
| MCCG-3N | MCCGF-3N | | | 0.055 - 0.069 | 1.4 - 1.7 | 0.190 | 4.8 | 100 |
| MCCG-4N | — | | | 0.069 - 0.090 | 1.7 - 2.3 | 0.230 | 5.8 | 100 |
| MCCG-6N | — | | | 0.113 - 0.130 | 2.9 - 3.3 | 0.230 | 5.8 | 100 |



**MCG / MCGF
Metal Grommet**

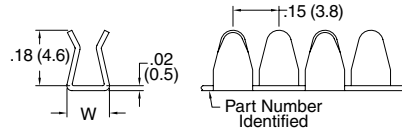
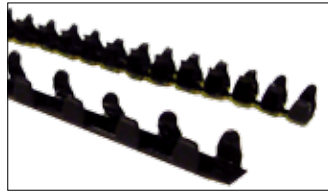


Figure 1

Specifications:

- Material: 304 Stainless Steel, coated with black nylon 11 & a cushion of TPE 60 Shore D UL94V-0 rating
- Temperature Rating: -40°F (-40°C) to 285°F (140°C)
- The MCGF is the more flexible of the two due to the design

Features:

- Dielectric Strength: 1000 volts @ 60Hz
- Locks onto panel with finger pressure
- Sold in 100 foot reels that can be cut to length using metal shears Item No. MCGS-1

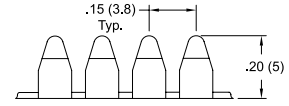
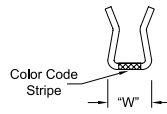


Figure 2



| Item No. | Figure | | Approval | Fits Panel Thickness | | Width W | | Color Coded | Roll Length |
|----------|----------|----------|----------|----------------------|-----------|---------|-----|-------------|-------------|
| | Figure 1 | Figure 2 | | In | mm | In | mm | | |
| MCG-1N | — | — | | 0.029 - 0.045 | 0.7 - 1.1 | 0.140 | 3.6 | — | 100 |
| MCG-2N | — | — | | 0.044 - 0.056 | 1.1 - 1.4 | 0.140 | 3.6 | — | 100 |
| MCG-3N | — | — | | 0.055 - 0.069 | 1.4 - 1.7 | 0.140 | 3.6 | — | 100 |
| MCG-4N | — | — | | 0.069 - 0.090 | 1.7 - 2.3 | 0.180 | 4.6 | — | 100 |
| MCG-6N | — | — | | 0.113 - 0.130 | 2.9 - 3.3 | 0.180 | 4.6 | — | 100 |
| — | — | MCGF-1N | | 0.029 - 0.045 | 0.7 - 1.1 | 0.130 | 3.3 | White | 100 |
| — | — | MCGF-2N | | 0.044 - 0.056 | 1.1 - 1.4 | 0.130 | 3.3 | Pink | 100 |
| — | — | MCGF-3N | | 0.055 - 0.069 | 1.4 - 1.7 | 0.130 | 3.3 | Yellow | 100 |

**NGSG / SNGSG / PGSG / SPGSG
Continuous Grommet Edging with Adhesive**

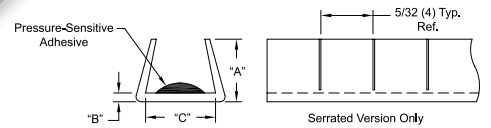


Specifications:

- Material Options:
UL94 HB Nylon Temperature Rating: -40°F (-40°C) to 248°F (120°C)
PE: Temperature Rating: -40°F (-40°C) to 149°F (65°C)
- Color: See Table

Features:

- Adhesive provides self-retaining grip eliminating the need for epoxy
- Sizes 6, 7, and 8 are extra flexible
- Solid version is for straight edges
- Serrated version for round, square, and rectangular holes
- Polyethylene material is very flexible



| Solid Profile Item No. | | Serrated Profile Item No. | | Material | Panel Thickness Range | | A Ref. | | B Ref. | | C Ref. | | Roll Length |
|------------------------|-----------|---------------------------|------------|---------------|-----------------------|-----------|--------|-----|--------|-----|--------|-----|-------------|
| Natural | Black | Natural | Black | | In | mm | In | mm | In | mm | In | mm | |
| NGSG-2 | — | SNGSG-2 | SNGSG-2B | UL94 HB Nylon | 0.037 - 0.071 | 0.9 - 1.8 | 0.172 | 4.4 | 0.031 | 0.8 | 0.109 | 2.8 | 100 |
| NGSG-2.5 | — | SNGSG-2.5 | — | UL94 HB Nylon | 0.072 - 0.105 | 1.8 - 2.7 | 0.172 | 4.4 | 0.031 | 0.8 | 0.109 | 2.8 | 100 |
| NGSG-3 | — | SNGSG-3 | — | UL94 HB Nylon | 0.106 - 0.164 | 2.7 - 4.2 | 0.188 | 4.8 | 0.047 | 1.2 | 0.156 | 4.0 | 100 |
| PGSG-2 | PGSG-2B | SPGSG-2 | SPGSG-2B | Polyethylene | 0.037 - 0.071 | 0.9 - 1.8 | 0.172 | 4.4 | 0.031 | 0.8 | 0.109 | 2.8 | 100 |
| PGSG-6 | PGSG-6B | SPGSG-6 | — | Polyethylene | 0.037 - 0.071 | 0.9 - 1.8 | 0.160 | 4.1 | 0.025 | 0.6 | 0.060 | 1.5 | 100 |
| PGSG-2.5 | PGSG-2.5B | SPGSG-2.5 | SPGSG-2.5B | Polyethylene | 0.072 - 0.105 | 1.8 - 2.7 | 0.172 | 4.4 | 0.031 | 0.8 | 0.109 | 2.8 | 100 |
| — | — | SPGSG-7 | — | Polyethylene | 0.072 - 0.105 | 1.8 - 2.7 | 0.188 | 4.8 | 0.035 | 0.9 | 0.100 | 2.5 | 100 |
| PGSG-3 | PGSG-3B | SPGSG-3 | SPGSG-3B | Polyethylene | 0.106 - 0.164 | 2.7 - 4.2 | 0.188 | 4.8 | 0.047 | 1.2 | 0.156 | 4.0 | 100 |
| — | — | SPGSG-8 | — | Polyethylene | 0.106 - 0.164 | 2.7 - 4.2 | 0.188 | 4.8 | 0.035 | 0.9 | 0.156 | 4.0 | 100 |

**NGS / PGS / SNGS / SPGS
Continuous Grommet Edging**

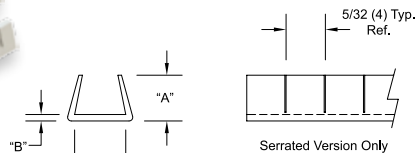
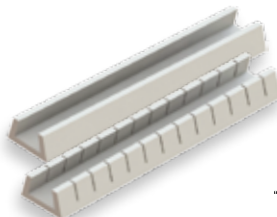


Specifications:

- Material: See Table
- Color: See Table

Features:

- Solid version is for straight edges
- Serrated version for round, square, and rectangular holes
- Polyethylene material is very flexible

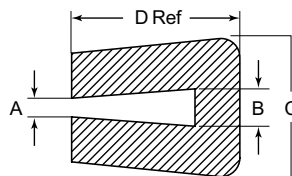
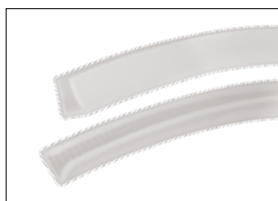


| Solid Profile Item No | | Serrated Profile Item No. | | Material | Panel Thickness Range | | A Ref. | | B Ref. | | C Ref. | | Roll Length |
|-----------------------|----------|---------------------------|-----------|---------------|-----------------------|-----------|--------|-----|--------|-----|--------|-----|-------------|
| Natural | Black | Natural | Black | | In | mm | In | mm | In | mm | In | mm | |
| NGS-1 | — | SNGS-1 | SNGS-1B | UL94 HB Nylon | 0.026-0.036 | 0.7 - 0.9 | 0.125 | 3.2 | 0.031 | 0.8 | 0.031 | 0.8 | 100 |
| NGS-2 | — | SNGS-2 | SNGS-2B | UL94 HB Nylon | 0.037-0.071 | 0.9 - 1.8 | 0.172 | 4.4 | 0.031 | 0.8 | 0.109 | 2.8 | 100 |
| — | — | SNGS-2.5 | SNGS-2.5B | UL94 HB Nylon | 0.072-0.105 | 1.8 - 2.7 | 0.172 | 4.4 | 0.031 | 0.8 | 0.109 | 2.8 | 100 |
| — | — | SNGS-3 | SNGS-3B | UL94 HB Nylon | 0.106-0.164 | 2.7 - 4.2 | 0.188 | 4.8 | 0.047 | 1.2 | 0.156 | 4.0 | 100 |
| — | — | SNGS-4 | SNGS-4B | UL94 HB Nylon | 0.164-0.187 | 4.2 - 4.7 | 0.188 | 4.8 | 0.047 | 1.2 | 0.188 | 4.8 | 100 |
| — | — | SNGS-5 | — | UL94 HB Nylon | 0.188-0.250 | 4.8 - 6.4 | 0.188 | 4.8 | 0.047 | 1.2 | 0.250 | 6.4 | 100 |
| PGS-1 | PGS-1B | SPGS-1 | — | Polyethylene | 0.026-0.036 | 0.7 - 0.9 | 0.125 | 3.2 | 0.031 | 0.8 | 0.031 | 0.8 | 100 |
| PGS-2 | — | SPGS-2 | — | Polyethylene | 0.037-0.071 | 0.9 - 1.8 | 0.172 | 4.4 | 0.031 | 0.8 | 0.109 | 2.8 | 100 |
| PGS-2.5 | PGS-2.5B | SPGS-2.5 | SPGS-2.5B | Polyethylene | 0.072-0.105 | 1.8 - 2.7 | 0.172 | 4.4 | 0.031 | 0.8 | 0.109 | 2.8 | 100 |
| PGS-3 | — | SPGS-3 | — | Polyethylene | 0.106-0.164 | 2.7 - 4.2 | 0.188 | 4.8 | 0.047 | 1.2 | 0.156 | 4.0 | 100 |



GROMMET EDGING

GE Continuous Grommet Edging



Specifications:

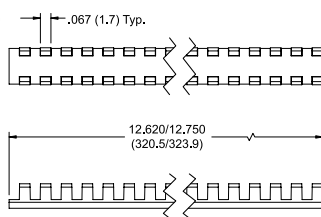
- Material: Polyethylene
- Color: Natural

Features:

- Provides protection for sharp edges
- Cut to required length to fit edging

| Item No. | A | | B | | C | | D | | Max Chassis Thickness | | Roll Length | |
|----------|-------|------|-------|------|-------|------|-------|-----|-----------------------|-----------|-------------|----|
| | In | mm | In | mm | In | mm | In | mm | In | mm | Ft | m |
| GE001A | 0.010 | 0.50 | 0.039 | 1.00 | 0.189 | 3.60 | 0.125 | 3.2 | 0.032 - 0.039 | 0.8 - 1.0 | 32.8 | 10 |
| GE002A | 0.024 | 0.60 | 0.047 | 1.20 | 0.148 | 3.40 | 0.125 | 3.2 | 0.039 - 0.047 | 1.0 - 1.2 | 32.8 | 10 |
| GE003A | 0.035 | 0.90 | 0.063 | 1.60 | 0.248 | 4.60 | 0.140 | 3.6 | 0.047 - 0.063 | 1.2 - 1.6 | 32.8 | 10 |
| GE004A | 0.043 | 1.10 | 0.079 | 2.00 | 0.177 | 4.10 | 0.150 | 3.8 | 0.063 - 0.079 | 1.6 - 2.0 | 32.8 | 10 |
| GE005A | 0.047 | 1.20 | 0.095 | 2.40 | 0.197 | 5.10 | 0.175 | 4.5 | 0.079 - 0.094 | 2.0 - 2.4 | 32.8 | 10 |
| GE006A | 0.059 | 1.50 | 0.126 | 3.20 | 0.252 | 5.80 | 0.195 | 5.0 | 0.094 - 0.126 | 2.4 - 3.2 | 32.8 | 10 |

MGS MS21266 Grommet Strip



Specifications:

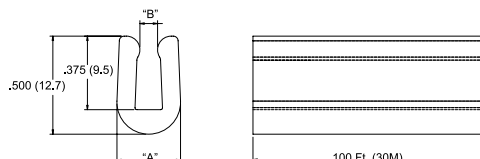
- Material: UL94 V-2 Nylon 6/6
- Color: Natural

Features:

- Ideally suited to cover normal and irregular shaped holes in sheet metal
- Complies with NASM21266
- Minimum hole diameter is 1"

| Item No. | Militart Part Number | Panel Thickness | A | B | C | D | Bulk Pack Qty. |
|----------|----------------------|-----------------|-------|-------|-------|-------|----------------|
| MGS-1-01 | MS21266-1N | .015-.052 | 0.150 | 0.056 | 0.055 | 0.100 | 100 |
| MGS-2-01 | MS21266-2N | .052-.085 | 0.175 | 0.090 | 0.055 | 0.100 | 100 |
| MGS-3-01 | MS21266-3N | .085-.128 | 0.220 | 0.131 | 0.055 | 0.100 | 100 |
| MGS-4-01 | MS21266-4N | .128-.192 | 0.325 | 0.195 | 0.070 | 0.160 | 100 |
| MGS-5-01 | MS21266-5N | .192-.255 | 0.385 | 0.260 | 0.070 | 0.170 | 100 |
| MGS-6-01 | MS21266-6N | .255-.318 | 0.445 | 0.320 | 0.075 | 0.180 | 100 |
| MGS-8-01 | MS21266-8N | .380-.510 | 0.640 | 0.515 | 0.075 | 0.180 | 50 |

RG Rubber Grommet Edging



Specifications:

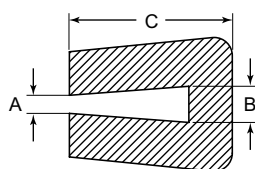
- Material: TPE
- Color: Black

Features:

- Supplied in rolls that can be cut to required length
- Prevents wires & cables from chafing against sharp edges

| Item No. | Fits Panel Thickness | | A Ref | | B Max | | Roll Length | |
|----------|----------------------|-----|-------|-----|-------|-----|-------------|----|
| | In | mm | In | mm | In | mm | Ft | m |
| RG-1 | 0.063 | 1.6 | 0.264 | 6.7 | 0.030 | 0.8 | 100 | 30 |
| RG-2 | 0.093 | 2.4 | 0.293 | 7.4 | 0.060 | 1.5 | 100 | 30 |
| RG-3 | 0.125 | 3.2 | 0.324 | 8.2 | 0.090 | 2.3 | 100 | 30 |

GRE PVC Grommet Edging



Specifications:

- Material: Soft PVC
- Color: Black

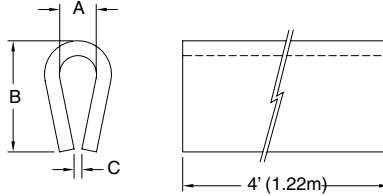
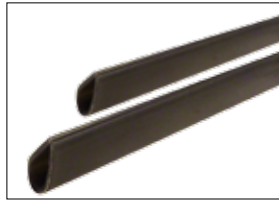
Features:

- Protects sharp or delicate edges
- Fits irregular shapes and a range of panel thicknesses
- PVC material is non-staining; resistant to ozone, acids, and sunlight; with excellent aging qualities

| Item No. | Panel Thickness A | | Panel Thickness B | | Overall Width C | | Roll Length | |
|-----------|-------------------|------|-------------------|------|-----------------|-------|-------------|----|
| | In | mm | In | mm | In | mm | Ft | m |
| GRE32343A | 0.031 | 0.78 | 0.047 | 1.19 | 0.276 | 7.01 | 164 | 50 |
| GRE34074A | 0.039 | 0.99 | 0.079 | 2.00 | 0.315 | 8.00 | 164 | 50 |
| GRE34075A | 0.059 | 1.49 | 0.110 | 2.79 | 0.374 | 9.50 | 164 | 50 |
| GRE34076A | 0.106 | 2.69 | 0.149 | 3.78 | 0.413 | 10.49 | 164 | 50 |
| GRE34077A | 0.146 | 3.70 | 0.204 | 5.18 | 0.433 | 11.00 | 164 | 50 |
| GRE34078A | 0.209 | 5.30 | 0.267 | 6.78 | 0.512 | 13.00 | 164 | 50 |



DSC
Nylon Grommet Edging

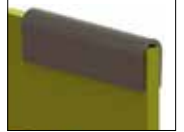


Specifications:

- Material: UL94 HB MDS Filled Nylon
- Color: Grey

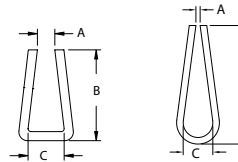
Features:

- Used as wear strips, non-abrasive edging, noise-reducing conveyor strips, framing, binding, or to protect from sharp edges
- Built-in lubricant for reduced friction and longer part life
- Resistant to ordinary solvents, mild acids and alkalis or fungus growth
- Comes in 4' lengths that can be cut to desired length



| Item No. | A Fits Panel Thickness | | B | | C Ref | | Wall Thickness | | Length | | Bulk Pack Qty. |
|----------|------------------------|-----|-------|------|-------|-----|----------------|-----|--------|------|----------------|
| | In | mm | In | mm | In | mm | In | mm | ft | m | |
| DSC-5-48 | 0.062 | 1.6 | 0.300 | 7.6 | 0.031 | 0.8 | 0.031 | 0.8 | 4 | 1.22 | 100 Ft |
| DSC-1-48 | 0.125 | 3.2 | 0.375 | 9.5 | 0.020 | 0.5 | 0.047 | 1.2 | 4 | 1.22 | 100 Ft |
| DSC-2-48 | 0.188 | 4.8 | 0.500 | 12.7 | 0.031 | 0.8 | 0.047 | 1.2 | 4 | 1.22 | 100 Ft |
| DSC-3-48 | 0.250 | 6.4 | 0.625 | 15.9 | 0.045 | 1.1 | 0.063 | 1.6 | 4 | 1.22 | 100 Ft |

CH
Polystyrene Channel



Specifications:

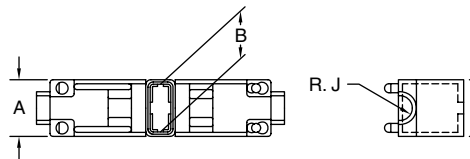
- Material: ULB94 HB Polystyrene
- Color: White

Features:

- Protects from sharp edges
- Binds & frames
- Sold in 4' lengths that can be cut to desired length

| Item No. | Fits Panel Thickness | | A Ref | | B Ref | | C Min. | | Figure | Length | | Bulk Pack Qty. |
|--------------|----------------------|-----|-------|-----|-------|------|--------|-----|--------|--------|------|----------------|
| | In | mm | In | mm | In | mm | In | mm | | ft | m | |
| CH200X250-48 | 0.250 | 6.4 | 0.200 | 5.1 | 0.375 | 9.5 | .25 | 6.4 | 1 | 4 | 1.22 | 100 Ft |
| CH15X50-48 | 0.050 | 1.3 | 0.015 | 0.4 | 0.437 | 11.1 | .05 | 1.3 | 1 | 4 | 1.22 | 100 Ft |
| CH20X141-48 | 0.140 | 3.6 | 0.020 | 0.5 | 0.562 | 14.3 | .14 | 3.6 | 2 | 4 | 1.22 | 100 Ft |

OS
Straight Terminal Insulator

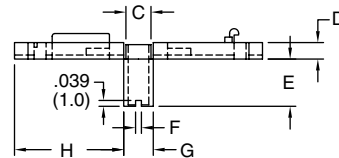


Specifications:

- Material: UL94 V-2 Nylon 6
- Color: Natural

Features:

- Insulating sleeve for straight type receptacles
- Installs easily by hand; slip the sleeve onto receptacle and snap shut with fingers
- For pre-assembled wire and receptacle

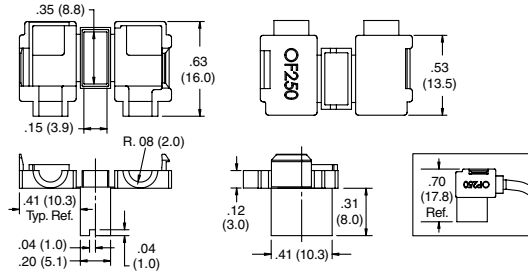


| Item No. | Approval | Terminal Type | Wire Ø | A | B | C | D | E | F | G | H | R. J | K | Bulk Pack Qty. |
|----------|----------|--------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|---------------|----------------|
| OS-187 | UL | Straight Type 187 Series | 9/64 (3.6) | .346 (8.8) | .240 (6.1) | .106 (2.7) | .102 (2.6) | .268 (6.8) | .039 (1.0) | .154 (3.9) | .594 (15.1) | .071 (1.8) | .295 (7.5) | 500 |
| OS-250 | UL | Straight Type 250 Series | 5/32 (3.8) | .386 (9.8) | .311 (7.9) | .164 (3.4) | .110 (2.8) | .315 (8.0) | .039 (1.0) | .185 (4.7) | .728 (18.5) | .081 (2.05) | .358 (9.1) | 500 |



INSULATORS

OF Flag Terminal Insulator



Specifications:

- Material: UL94 V-2 Nylon 6
- Color: Natural

Features:

- Insulating sleeve for flag type receptacles
- Installs easily by hand; slip the sleeve onto receptacle and snap shut with fingers
- For pre-assembled wire and receptacle

| Item No. | Approval | Terminal Type | Wire Ø | | Bulk Pack Qty. |
|----------|----------|----------------------|--------|-----|----------------|
| | | | In | mm | |
| OF-250 | | Flag Type 250 Series | 0.150 | 3.9 | 500 |

2XXXXX Quick Fit Straight Terminal Insulator

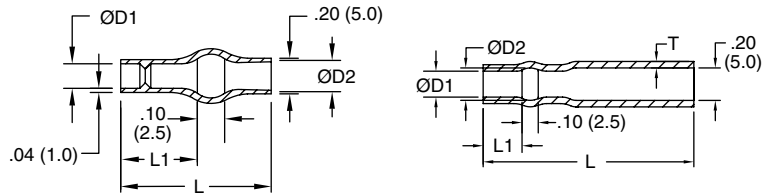


Figure 1

Figure 2

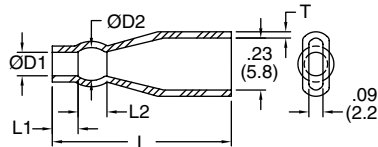


Figure 3

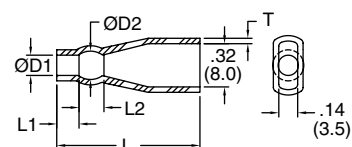
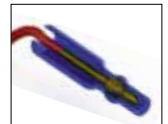


Figure 4



Specifications:

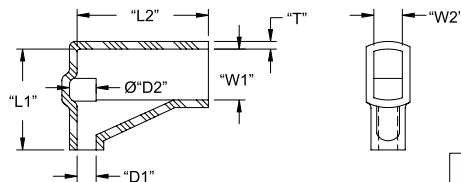
- Material: UL94 V-0 Soft PVC
- Color: Transparent Blue
- UL Temperature Rating: 221° F (105° C)
- UL Voltage: 600V

Features:

- Replaces heat shrink tubing
- Made from a specially formulated soft PVC for fast, flexible installation
- Transparent for visual inspection
- No corrosion when exposed to copper

| Item No. | Approval | Figure | Wire OD Range | | Wire Gauge | Ø D1 | | Ø D2 | | L1 | | L2 | | L | | T | Bulk Pack Qty. |
|----------|----------|--------|---------------|---------|------------|-------|-----|-------|-----|-------|-----|-------|-----|-------|------|-----|----------------|
| | | | In | mm | | In | mm | In | mm | In | mm | In | mm | In | mm | | |
| 224225 | | 1 | 0.580-0.091 | 1.5-2.3 | 22-18 | 0.100 | 2.5 | 0.160 | 4.1 | 0.240 | 6.1 | — | — | 0.510 | 13.0 | — | 1000 |
| 224230 | | 1 | 0.068-0.113 | 1.7-2.9 | 20-18 | 0.120 | 3.0 | 0.160 | 4.1 | 0.240 | 6.1 | — | — | 0.510 | 13.0 | — | 1000 |
| 215025 | | 2 | 0.580-0.091 | 1.5-2.3 | 22-18 | 0.100 | 2.5 | 0.160 | 4.1 | 0.240 | 6.1 | — | — | 1.300 | 33.0 | .04 | 1.0 |
| 215032 | | 2 | 0.071-0.126 | 1.8-3.2 | 18-16 | 0.130 | 3.3 | 0.180 | 4.6 | 0.280 | 7.1 | — | — | 1.340 | 34.0 | .04 | 1.0 |
| 235830 | | 3 | 0.580-0.091 | 1.5-2.3 | 20-18 | 0.120 | 3.0 | 0.160 | 4.0 | 0.200 | 5.0 | 0.100 | 2.5 | 0.910 | 23.0 | .03 | .08 |
| 235835 | | 3 | 0.071-0.140 | 1.8-3.6 | 18-14 | 0.140 | 3.5 | 0.180 | 4.5 | 0.200 | 5.0 | 0.120 | 3.0 | 0.910 | 23.0 | .03 | .08 |
| 238032 | | 4 | 0.071-0.126 | 1.8-3.2 | 18-16 | 0.130 | 3.3 | 0.190 | 4.8 | 0.200 | 5.1 | 0.100 | 2.5 | 0.950 | 24.1 | .04 | 1.0 |
| 238035 | | 4 | 0.071-0.140 | 1.8-3.6 | 18-14 | 0.140 | 3.6 | 0.180 | 4.6 | 0.200 | 5.1 | 0.120 | 3.0 | 0.950 | 24.1 | .04 | 1.0 |
| 238040 | | 4 | 0.091-0.140 | 2.3-3.6 | 16-14 | 0.160 | 4.1 | 0.200 | 5.1 | 0.200 | 5.1 | 0.120 | 3.0 | 0.970 | 24.6 | .04 | 1.0 |
| 238048 | | 4 | 0.113-0.190 | 2.9-4.8 | 14-12 | 0.190 | 4.8 | 0.250 | 6.3 | 0.200 | 5.1 | 0.100 | 2.5 | 0.980 | 24.6 | .04 | 1.0 |

248XXX Quick Fit Flag Terminal Insulator



Specifications:

- Material: UL94 V-0 Soft PVC
- Color: Transparent Blue
- UL Temperature Rating: 221° F (105° C)
- UL Voltage: 600V

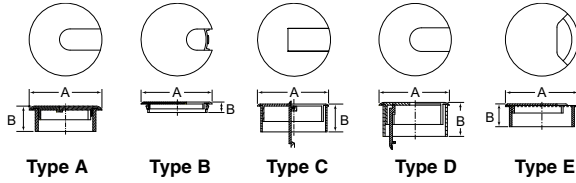
Features:

- Replaces heat shrink tubing
- Made from a specially formulated soft PVC for fast, flexible installation
- Transparent for visual inspection
- No corrosion when exposed to copper

| Item No. | Approval | Wire OD Range | | Wire Gauge | Ø D1 | | Ø D2 | | L1 | | L2 | | W1 | | W2 | | T | Bulk Pack Qty. |
|----------|----------|---------------|---------|------------|-------|-----|-------|-----|-------|------|-------|------|-------|-----|-------|-----|-------|----------------|
| | | In | mm | | In | mm | In | mm | In | mm | In | mm | In | mm | | | | |
| 248532 | | 0.071-0.126 | 1.8-3.2 | 18-16 | 0.130 | 3.2 | 0.170 | 4.2 | 0.530 | 13.5 | 0.690 | 17.5 | 0.340 | 8.5 | 0.180 | 4.5 | 0.040 | 1.0 |
| 248548 | | 0.133-0.190 | 2.9-4.8 | 14-12 | 0.190 | 4.8 | 0.230 | 5.8 | 0.530 | 13.5 | 0.690 | 17.5 | 0.340 | 8.5 | 0.180 | 4.5 | 0.040 | 1.0 |



WMRG Series – Round Desk Grommets



Specifications:

- Material: ABS or PS
- Color: Black
- Surface Finish: Textured or Polished

Features:

- Wire management grommets are used extensively on office furniture and computer desks to eliminate the clutter of wires and cables. Our range of grommets offers several shapes and styles and most can be coordinated to match the color of your desk surface
- All grommets are layer packed for your convenience and to protect the surface during shipping.

| Item No. | Type | Style | A Dimension In | B Dimension In | To Fit Hole Dia In | Material | Surface Finish | Pack Qty. | Bulk Pack Qty. |
|----------|------|---------|----------------|----------------|--------------------|----------|----------------|-----------|----------------|
| WMRG100A | A | 3-PIECE | 1.500 | 0.469 | 1.250 | ABS | Textured | 1 | 1000 |
| WMRG110B | D | 3-PIECE | 2.250 | 1.000 | 2.000 | ABS | Polished | 1 | 400 |
| WMRG130A | D | 3-PIECE | 2.250 | 1.000 | 2.000 | ABS | Textured | 1 | 600 |
| WMRG140A | B | 2-PIECE | 3.000 | 0.540 | 2.500 | ABS | Textured | 1 | 750 |
| WMRG160A | C | 3-PIECE | 3.000 | 1.050 | 2.750 | ABS | Textured | 1 | 400 |
| WMRG170C | A | 3-PIECE | 3.000 | 1.050 | 2.750 | ABS | Polished | 1 | 300 |
| WMRG180B | E | 2-PIECE | 3.625 | 1.100 | 3.250 | PS | Textured | 1 | 240 |
| WMRG190B | D | 3-PIECE | 2.250 | 1.000 | 2.000 | ABS | Textured | 1 | 400 |

WMUG Series – Round Umbrella Table Grommets



Specifications:

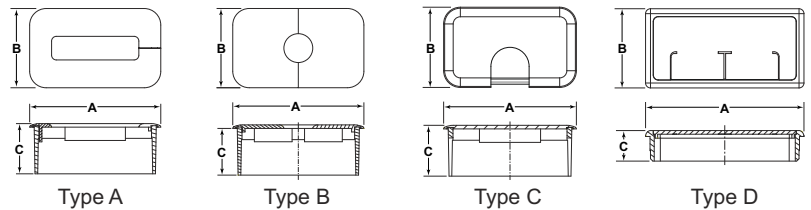
- Material: K-Resin
- Color: Clear

Features:

- Umbrella grommets are used on patio and casual furniture to protect tables from umbrella damage
- The plug finishes the table when the umbrella is not present

| Item No. | To Fit Hole Dia In | Type | Pack Qty. | Bulk Pack Qty. |
|----------|--------------------|--------------|-----------|----------------|
| WMUG100C | 2.000 | Bushing/Ring | 1 | 900 |
| WMUG110D | fits into WMUG100C | Cover/Lid | 1 | 900 |

WMTG Series – Rectangular Table Grommets



Specifications:

- Material: Refer to Chart
- Color: Black
- Surface Finish: Textured

Features:

- Wire management grommets are used extensively on office furniture and computer desks to eliminate the clutter of wires and cables

| Item No. | Type | Style | A Dimension In | B Dimension In | C Dimension In | To Fit Hole Dia In | Material | Surface Finish | Pack Qty. | Bulk Pack Qty. |
|----------|------|---------|----------------|----------------|----------------|--------------------|---------------|----------------|-----------|----------------|
| WMTG100A | B | 3-PIECE | 3.500 | 2.125 | 0.700 | 3.250 x 1.875 | ABS | Textured | 1 | 525 |
| WMTG110A | B | 3-PIECE | 3.500 | 2.125 | 1.250 | 3.230 x 1.865 | ABS | Textured | 1 | 315 |
| WMTG120A | A | 2-PIECE | 3.475 | 2.102 | 1.250 | 3.250 x 1.865 | ABS | Textured | 1 | 189 |
| WMTG150A | B | 2-PIECE | 3.500 | 2.134 | 1.287 | 3.250 x 1.865 | ABS | Textured | 1 | 320 |
| WMTG170A | C | 2-PIECE | 3.365 | 2.245 | 1.750 | 3.125 x 2.000 | ABS | Textured | 1 | 204 |
| WMTG180A | D | 2-PIECE | 4.020 | 2.010 | 0.775 | 3.770 x 1.750 | Polypropylene | Textured | 1 | 288 |

UL® File Number & UL® Yellow Cards

Underwriter's Laboratories Inc. (UL®), plastics classification number is used to describe the performance of the material. Tests conducted by UL® may include the determination of material flammability (burning characteristics), ignition characteristics from various thermal and electrical sources, electrical tracking and other electrical characteristics, physical and mechanical characteristics, and analytical tests. In addition, the effect of long-term exposure to elevated temperature (air-oven aging), water, ultraviolet light, cold, etc. on property-retention may be evaluated.

For more information and to download the UL® Yellow Card for a product, please visit www.ul.com and click on "Certifications."

UL® Flame Rating

UL94 classifications V-0, V-1, V-2, and HB describe the flame retardant levels for a given resin. V-0 rated resins typically have the highest flame resistance followed by V-1, V-2, and HB.

For more information on UL® Flame Ratings and the Burn Test, please visit www.ul.com.

Common Material Abbreviations

ABS = Acrylonitrile butadiene styrene
Acetal/POM = Polyacetal
CPVC = Chlorinated polyvinyl chloride
EPDM = Ethylene-propylene-diene-monomer
HDPE = High density polyethylene
HIPS = High impact polystyrene
LCP = Liquid crystal polymer
LDPE = Low density polyethylene
Nitrile Rubber = Acrylonitrile rubber
Nylon = Polyamide (PA)
PBT = Polybutylene terephthalate
PC = Polycarbonate
PE = Polyethylene
PEI = Polyetherimide
PP = Polypropylene
PPE/PS = Polyphenylene ether/polystyrene alloy
PPE/SB = Polyphenylene ether/styrene-butadiene alloy
PPS = Polyphenylene sulfide
PS = Polystyrene
PSU = Polysulfone
PU = Polyurethane
PVC = Polyvinyl chloride
PVDF = Polyvinylidene fluoride
SEBS = Styrene-ethylene butylene-styrene block copolymer
SIR = Silicone molding compound
TPE = Thermoplastic elastomer
TPR = Thermoplastic rubber

Adhesive Tape Usage Guidelines

Loads & Product Usage Guidelines

Long-term maximum product application loads generally should not exceed 0.25 psi. The surface area of contact is very critical for bond strength, so the amount of tape used should be maximized based on the application. In general, the tensile strength of the adhesive is higher than the peel or shear strength, so the product should be designed to be loaded in tension whenever possible.

Nylon & Adhesive Shelf Life

If products are kept under the Ideal Storage Conditions, shelf life is 1 year from date of shipment.

Ideal Storage Conditions

Stored in the original unopened bags at 73°F (23°C) and 50% relative humidity.

Temperature Considerations

Ideal application temperature for most adhesives is 70° - 100°F (21° - 38°C). Lower application temperatures should be avoided as the adhesive will be too firm and may not 'wet out' sufficiently.

Application Guide

Surface Condition: The bonding surfaces must be clean, uniform, dry and free of condensation. Do not use on fabric, coarse concrete, loose paint, or rough, loose surfaces.

Surface Preparation: For maximum performance, clean the mounting surfaces with a cleaning solvent such as a 50/50 mixture of isopropyl alcohol and water. Be sure to follow the solvent manufacturer's directions for use. Some surfaces may require a sealant or primer to achieve the desired bonding. Test the product on your actual application.

Application Pressure: Remove the release liner being very careful not to touch the adhesive surface and then quickly and firmly press the product into place. Firm pressure is needed to ensure full contact and to allow the adhesive to fully wet-out on the mating surfaces.

Dwell Time: The bond strength is affected by the substrate surface, application temperature and dwell time. At room temperature approximately half of the bond strength will be obtained within the first half hour with the majority of the strength achieved within 24 hours. Therefore, whenever possible wait 24 hours before applying load.

Acrylic vs. Rubber Based Adhesives: In general, rubber based adhesives offer higher initial tack whereas acrylic based adhesives maintain higher mechanical strength over time. One should evaluate the performance of the product on the actual end use application. Contact your local Essentra representative for additional physical property and chemical resistance data.



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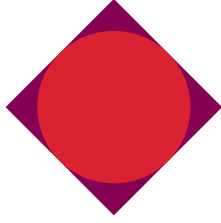
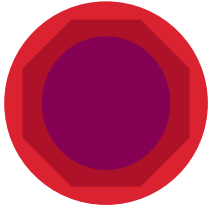
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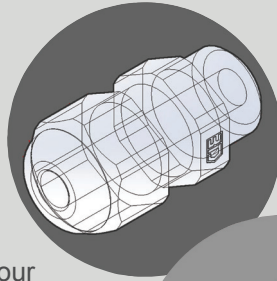
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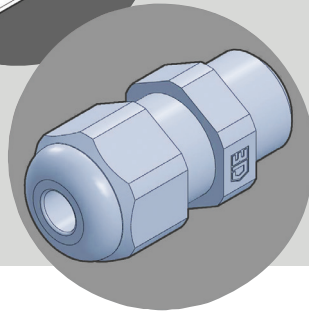
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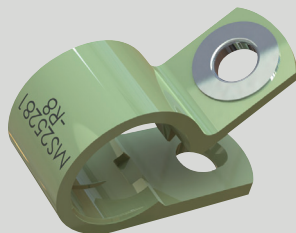


PVC Coated
Metal Conduit
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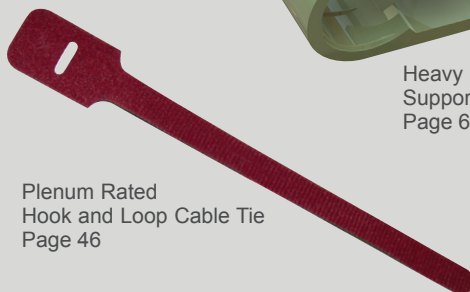


Hook & Loop
Cinch Strap with Grommet
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2:1 Yellow & Green Striped
Heat Shrink Tubing
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Heavy Duty
Support Clamp
Page 6

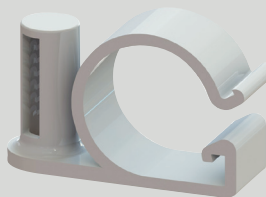
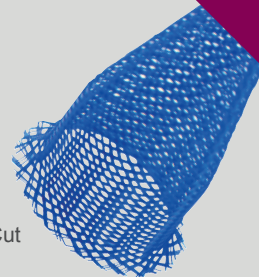


Plenum Rated
Hook and Loop Cable Tie
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Metal Conduit
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Scissor Cut
Sleeve
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Stud Mount
Wire Harness Clip
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