



For more Information
please call

1-800-Belden1



General Description:

30 AWG stranded (7x38) .012" silver-plated copper-covered steel conductor, TFE Teflon® insulation, silver-plated copper braid shield (95% coverage), FEP jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (mm) |
|--------|-----|-----------|--|-----------|
| 1 | 30 | 7x38 | SPCCS - Silver Plated Copper Covered Steel | 0.3048 |

Total Number of Conductors: 1

Insulation

Insulation Material:

| Insulation Trade Name | Insulation Material | Dia. (mm) |
|-----------------------|---------------------------|-----------|
| Teflon® | TFE - Tetrafluoroethylene | 0.8382 |

Outer Shield

Outer Shield Material:

| Type | Outer Shield Material | Coverage (%) |
|-------|----------------------------|--------------|
| Braid | SPC - Silver Plated Copper | 95.000 |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material |
|--------------------------------------|
| FEP - Fluorinated Ethylene Propylene |

Overall Cable

Overall Nominal Diameter: 1.803 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -70°C To +200°C

UL Temperature Rating: 90C

Bulk Cable Weight: 7.441 Kg/Km

Max. Recommended Pulling Tension: 53.378 N

Min. Bend Radius/Minor Axis: 25.400 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

EU Directive 2011/65/EU (ROHS II): Yes

EU CE Mark: No

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 04/01/2005

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire & Cable): Yes

MIL Order #39 (China RoHS): Yes

Military Specification: MIL-C-17, M17/93-RG178

Other Specification: UL Style 1637

RG Type: 178B/U

Plenum/Non-Plenum

Plenum (Y/N): No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

| Impedance (Ohm) |
|-----------------|
| 50 |

Nom. Inductance:

| Inductance (µH/m) |
|-------------------|
| 0.236232 |

Nom. Capacitance Conductor to Shield:

| Capacitance (pF/m) |
|--------------------|
| 95.149 |

Nominal Velocity of Propagation:

| VP (%) |
|--------|
| 69.5 |

Nominal Delay:

| Delay (ns/m) |
|--------------|
| 4.79026 |

Nom. Conductor DC Resistance:

| DCR @ 20°C (Ohm/km) |
|---------------------|
| 800.564 |

Nominal Outer Shield DC Resistance:

| DCR @ 20°C (Ohm/km) |
|---------------------|
| 47.9026 |

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
| 1 | 8.5306 |
| 10 | 18.3736 |
| 50 | 34.4505 |
| 100 | 45.934 |
| 200 | 62.339 |
| 400 | 91.868 |
| 700 | 121.397 |
| 900 | 139.443 |
| 1000 | 150.926 |

Nom. Power Rating:

| Freq. (MHz) | Rating (W) |
|-------------|------------|
| 50 | 380 |
| 100 | 253 |
| 200 | 170 |
| 400 | 113 |
| 700 | 81 |
| 900 | 70 |
| 1000 | 66 |

Max. Operating Voltage - UL:

| Voltage | Description |
|----------|-------------|
| 30 V rms | AWM 1637 |

Max. Operating Voltage - Other:

| Voltage | Description |
|------------------------|-------------|
| Military Specification | 750 V RMS |

Misc. Information (Overall)

Notes (Overall)

Notes: Military Specification (M17/93) Operating Temperature: -55C to 200C. - - - Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|-------|-------|--------------|
| 83265 009100 | 100 FT | 0.800 LB | WHITE | E | M17/93-RG178 |
| 83265 0091000 | 1,000 FT | 6.000 LB | WHITE | E | M17/93-RG178 |
| 83265 009500 | 500 FT | 3.500 LB | WHITE | E | M17/93-RG178 |

Notes:

E = MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'

Revision Number: 5 Revision Date: 09-03-2014

© 2015 Belden, Inc
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.