

1505A Coax - RG-59/U Type

For more Information
please call

1-800-Belden1



Description:

20 AWG solid .032" bare copper conductor, gas-injected foam HDPE insulation, Duofoil® + tinned copper braid shield (95% coverage), PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------|-----|-----------|--------------------|------------|
| 1 | 20 | Solid | BC - Bare Copper | .032 |

Insulation

Insulation Material:

| Insulation Material | Dia. (in.) |
|---|------------|
| Gas-injected FHDPE - Foam High Density Polyethylene | .145 |

Outer Shield

Outer Shield Material:

| Layer # | Outer Shield Trade Name | Type | Outer Shield Material | Coverage (%) |
|---------|-------------------------|-------|--|--------------|
| 1 | Duofoil® | Tape | Aluminum Foil-Polyester Tape-Aluminum Foil | 100 |
| 2 | | Braid | TC - Tinned Copper | 95 |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material |
|--------------------------|
| PVC - Polyvinyl Chloride |

Overall Cable

Overall Nominal Diameter: 0.233 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +75°C

UL Temperature Rating: 75°C

Bulk Cable Weight: 31 lbs/1000 ft.

Max. Recommended Pulling Tension: 47 lbs.

Min. Bend Radius (Install)/Minor Axis: 2.500 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMG

EU CE Mark: Yes

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

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

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

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

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

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

MII Order #39 (China RoHS): Yes

RG Type: 59/U

Flame Test

UL Flame Test: UL1666 Vertical Shaft

Suitability

Suitability - Indoor: Yes

Suitability - Outdoor: Yes - Black only

Suitability - Aerial: Yes - Black only, when supported by a messenger wire

Plenum/Non-Plenum

Plenum (Y/N): No

Plenum Number: 1506A

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

75

Nom. Inductance:

Inductance (µH/ft)

0.107

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

16.3

Nominal Velocity of Propagation:

VP (%)

83

Nominal Delay:

Delay (ns/ft)

1.22

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

10.0

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

3.8

Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100 ft.)

1.000 0.300

3.600 0.600

5.000 0.630

6.000 0.690

7.000 0.740

10.000 0.900

12.000 0.910

25.000 1.300

67.500 2.050

71.500 2.100

88.500 2.200

100.000 2.300

135.000 2.700

143.000 2.800

| | |
|----------|--------|
| 180.000 | 3.100 |
| 270.000 | 3.800 |
| 360.000 | 4.400 |
| 540.000 | 5.500 |
| 720.000 | 6.400 |
| 750.000 | 6.500 |
| 1000.000 | 7.600 |
| 1500.000 | 9.300 |
| 2000.000 | 10.900 |
| 3000.000 | 13.400 |
| 2250.000 | 11.600 |
| 4500.000 | 16.400 |

Max. Operating Voltage - UL:

| |
|----------------|
| Voltage |
| 300 V RMS |

Other Electrical Characteristic 1: Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75 Ohm fixed bridge and termination. 75 +/- 1.5 Ohms

Other Electrical Characteristic 2: Return Loss tested in accordance with ASTM D-4566 paragraph 45.3, using a 75 Ohm fixed bridge and termination.

Minimum Return Loss:

| Start Freq. (MHz) | Stop Freq. (MHz) | Min. RL (dB) |
|-------------------|------------------|--------------|
| 5 | 1600 | 23 |
| 1600 | 4500 | 21 |

Sweep Test

Sweep Testing: 100% Sweep tested 5 MHz to 4.5 GHz.

Misc. Information (Overall)

Notes (Overall)

Notes: Also available in bundled versions. See 7794A through 7798A.

Related Documents:

No related documents are available for this product

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|-------------|-------|--------------------------|
| 1505A N3U1000 | 1,000 FT | 35.000 LB | GREEN, MIL | C | #20 PE/GIFHDPE SH FR PVC |
| 1505A N3U5000 | 5,000 FT | 165.000 LB | GREEN, MIL | C N | #20 PE/GIFHDPE SH FR PVC |
| 1505A 0011000 | 1,000 FT | 35.000 LB | BROWN | C | #20 PE/GIFHDPE SH FR PVC |
| 1505A 0015000 | 5,000 FT | 165.000 LB | BROWN | C N | #20 PE/GIFHDPE SH FR PVC |
| 1505A 0021000 | 1,000 FT | 35.000 LB | RED | C | #20 PE/GIFHDPE SH FR PVC |
| 1505A 002500 | 500 FT | 15.500 LB | RED | C | #20 PE/GIFHDPE SH FR PVC |
| 1505A 0025000 | 5,000 FT | 165.000 LB | ORANGE | C N | #20 PE/GIFHDPE SH FR PVC |
| 1505A 0031000 | 1,000 FT | 35.000 LB | ORANGE | C | #20 PE/GIFHDPE SH FR PVC |
| 1505A 0035000 | 5,000 FT | 165.000 LB | ORANGE | C N | #20 PE/GIFHDPE SH FR PVC |
| 1505A 0041000 | 1,000 FT | 35.000 LB | YELLOW | C | #20 PE/GIFHDPE SH FR PVC |
| 1505A 0045000 | 5,000 FT | 165.000 LB | YELLOW | C N | #20 PE/GIFHDPE SH FR PVC |
| 1505A 0061000 | 1,000 FT | 35.000 LB | BLUE, LIGHT | C | #20 PE/GIFHDPE SH FR PVC |
| 1505A 006500 | 500 FT | 15.500 LB | BLUE, LIGHT | C | #20 PE/GIFHDPE SH FR PVC |
| 1505A 0065000 | 5,000 FT | 165.000 LB | BLUE, LIGHT | C N | #20 PE/GIFHDPE SH FR PVC |
| 1505A 0071000 | 1,000 FT | 35.000 LB | VIOLET | C | #20 PE/GIFHDPE SH FR PVC |
| 1505A 0075000 | 5,000 FT | 165.000 LB | VIOLET | C N | #20 PE/GIFHDPE SH FR PVC |
| 1505A 0081000 | 1,000 FT | 35.000 LB | GRAY | C | #20 PE/GIFHDPE SH FR PVC |
| 1505A 0085000 | 5,000 FT | 165.000 LB | GRAY | C N | #20 PE/GIFHDPE SH FR PVC |
| 1505A 0091000 | 1,000 FT | 35.000 LB | WHITE | C | #20 PE/GIFHDPE SH FR PVC |
| 1505A 0095000 | 5,000 FT | 165.000 LB | WHITE | C N | #20 PE/GIFHDPE SH FR PVC |
| 1505A 0101000 | 1,000 FT | 35.000 LB | BLACK | C | #20 PE/GIFHDPE SH FR PVC |

| | | | | | |
|---------------|----------|------------|-------|-----|--------------------------|
| 1505A 010500 | 500 FT | 17.500 LB | BLACK | C | #20 PE/GIFHDPE SH FR PVC |
| 1505A 0105000 | 5,000 FT | 165.000 LB | BLACK | C N | #20 PE/GIFHDPE SH FR PVC |

Notes:

C = CRATE REEL PUT-UP.

N = FINAL PUT-UP LENGTH MAY VARY -0% TO +10% FROM LENGTH SHOWN.

Revision Number: 6 Revision Date: 09-30-2009

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