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1-800-Belden1



Description:

RG-6/U Type, 18 AWG solid .040" 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. (mm) |
|--------|-----|-----------|--------------------|-----------|
| 1 | 18 | Solid | BC - Bare Copper | 1.016 |

Insulation

Insulation Material:

| Insulation Material | Dia. (mm) |
|---|-----------|
| Gas-injected FHDPE - Foam High Density Polyethylene | 4.572 |

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 Cabling

Overall Nominal Diameter: 6.960 mm

Mechanical Characteristics (Overall)

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

UL Temperature Rating: 75°C

Bulk Cable Weight: 61.016 Kg/Km

Max. Recommended Pulling Tension: 306.926 N

Min. Bend Radius (Install)/Minor Axis: 69.850 mm

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): 01/01/2004

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

1694A Coax - Low Loss Serial Digital Coax

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

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

MII Order #39 (China RoHS): Yes

RG Type: 6/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: 1695A

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

75

Nom. Inductance:

Inductance (µH/m)

0.347786

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

53.1522

Nominal Velocity of Propagation:

VP (%)

82

Nominal Delay:

Delay (ns/m)

4.06844

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

20.9984

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

9.1868

Nom. Attenuation:

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

1.000 0.787

3.580 1.444

5.000 1.706

6.000 1.870

7.000 2.001

10.000 2.330

12.000 2.559

25.000 3.543

67.500 5.414

71.500 5.545

88.500 6.103

100.000 6.398

135.000 7.349

143.000 7.546

1694A Coax - Low Loss Serial Digital Coax

| | |
|----------|--------|
| 180.000 | 8.432 |
| 270.000 | 10.401 |
| 360.000 | 12.107 |
| 540.000 | 15.093 |
| 720.000 | 17.652 |
| 750.000 | 18.046 |
| 1000.000 | 21.064 |
| 1500.000 | 26.215 |
| 2000.000 | 30.743 |
| 2250.000 | 32.843 |
| 3000.000 | 38.650 |
| 4500.000 | 48.953 |

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 7710A through 7713A.

Related Documents:

No related documents are available for this product

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|-------------|-------|--------------------------|
| 1694A N3U1000 | 305 MT | 20.412 KG | GREEN, MIL | C | #18 PE/GIFHDPE SH FR PVC |
| 1694A N3U5000 | 1,524 MT | 102.059 KG | GREEN, MIL | C N | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0011000 | 305 MT | 20.412 KG | BROWN | C | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0015000 | 1,524 MT | 102.059 KG | BROWN | C N | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0021000 | 305 MT | 20.412 KG | RED | C | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0025000 | 1,524 MT | 102.059 KG | RED | C N | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0031000 | 305 MT | 20.412 KG | ORANGE | C | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0041000 | 305 MT | 20.412 KG | YELLOW | C | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0061000 | 305 MT | 20.412 KG | BLUE, LIGHT | C | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0065000 | 1,524 MT | 102.059 KG | BLUE, LIGHT | C N | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0071000 | 305 MT | 20.412 KG | VIOLET | C | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0075000 | 1,524 MT | 102.059 KG | VIOLET | C N | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0081000 | 305 MT | 20.412 KG | GRAY | C | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0085000 | 1,524 MT | 102.059 KG | GRAY | C N | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0091000 | 305 MT | 20.412 KG | WHITE | C | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0101000 | 305 MT | 20.412 KG | BLACK | C | #18 PE/GIFHDPE SH FR PVC |
| 1694A 010500 | 152 MT | 9.299 KG | BLACK | C | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0105000 | 1,524 MT | 102.059 KG | BLACK | C N | #18 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: 13 Revision Date: 02-22-2010

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