



For more Information
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1-800-Belden1



General 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 |

Total Number of Conductors: 1

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 Cable

Overall Nominal Diameter: 6.960 mm

Mechanical Characteristics (Overall)

| | |
|-----------------------------------|----------------|
| Operating Temperature Range: | -30°C To +75°C |
| Bulk Cable Weight: | 61.016 Kg/Km |
| Max. Recommended Pulling Tension: | 306.926 N |
| Min. Bend Radius/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 Directive 2011/65/EU (ROHS II): | Yes |
| 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 |
| 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

| | |
|--------------------------|---|
| CSA Flame Test: | FT4 |
| Suitability | |
| Suitability - Indoor: | Yes |
| Suitability - Outdoor: | Yes - Black only. |
| Suitability - Aerial: | Yes - Black only, when supported by messenger wire. |
| Suitability - Burial: | No |
| 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 |
| 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

METRIC MEASUREMENT VERSION

1694A Coax - Low Loss Serial Digital Coax

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) |
|-------------------|------------------|--------------|
| 5.000 | 1600.000 | 23.000 |
| 1600.000 | 4500.000 | 21.000 |

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.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|----------------|----------|-------------|-------------|-------|--------------------------|
| 1694A N3UN1000 | 1,000 FT | 45.000 LB | GREEN, MIL | | #18 PE/GIFHDPE SH FR PVC |
| 1694A N3U1000 | 1,000 FT | 45.000 LB | GREEN, MIL | C | #18 PE/GIFHDPE SH FR PVC |
| 1694A N3U5000 | 5,000 FT | 225.000 LB | GREEN, MIL | C N | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0011000 | 1,000 FT | 45.000 LB | BROWN | C | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0015000 | 5,000 FT | 225.000 LB | BROWN | C N | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0021000 | 1,000 FT | 45.000 LB | RED | C | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0025000 | 5,000 FT | 225.000 LB | RED | C N | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0031000 | 1,000 FT | 45.000 LB | ORANGE | C | #18 PE/GIFHDPE SH FR PVC |
| 1694A 004N1000 | 1,000 FT | 45.000 LB | YELLOW | | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0041000 | 1,000 FT | 45.000 LB | YELLOW | C | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0061000 | 1,000 FT | 45.000 LB | BLUE, LIGHT | C | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0065000 | 5,000 FT | 225.000 LB | BLUE, LIGHT | C N | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0071000 | 1,000 FT | 45.000 LB | VIOLET | C | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0075000 | 5,000 FT | 225.000 LB | VIOLET | C N | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0081000 | 1,000 FT | 45.000 LB | GRAY | C | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0085000 | 5,000 FT | 225.000 LB | GRAY | C N | #18 PE/GIFHDPE SH FR PVC |
| 1694A 009N1000 | 1,000 FT | 45.000 LB | WHITE | | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0091000 | 1,000 FT | 45.000 LB | WHITE | C | #18 PE/GIFHDPE SH FR PVC |
| 1694A 010N1000 | 1,000 FT | 45.000 LB | BLACK | | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0101000 | 1,000 FT | 45.000 LB | BLACK | C | #18 PE/GIFHDPE SH FR PVC |
| 1694A 010500 | 500 FT | 22.500 LB | BLACK | C | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0105000 | 5,000 FT | 225.000 LB | 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: 14 Revision Date: 03-11-2015

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