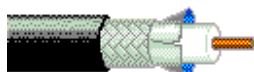


1694A Coax - Low Loss Serial Digital Coax



For more Information
please call

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

UL Temperature Rating: 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

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

METRIC MEASUREMENT VERSION

1694A Coax - Low Loss Serial Digital Coax

| | |
|----------|--------|
| 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 |
| 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 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 | 10.206 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.

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