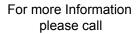
Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

1694A Coax - Low Loss Serial Digital Coax



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.

| | U 7. | | | |
|--|---------------------|---------------------------------|--------------|------|
| Physical Characteristics (Ov | erall) | | | |
| Conductor AWG: | | | | |
| # Coax AWG Stranding Conduct | or Material Dia. (i | n.) | | |
| 1 18 Solid BC - Bare | e Copper .040 | | | |
| Insulation | | | | |
| Insulation Material: | | | | |
| Insulation Material Gas-injected FHDPE - Foam High D |)ensity Polyethylen | Dia. (in.) e .180 | | |
| | | | | |
| Outer Shield Outer Shield Material: | | | | |
| Layer # Outer Shield Trade Name | Type Outer Shie | eld Material | Coverage (%) | |
| 1 Duofoil® | | Foil-Polyester Tape-Aluminum Fo | | |
| 2 | Braid TC - Tinne | d Copper | 95 | |
| Outer Jacket | | | | |
| Outer Jacket Material: | | | | |
| Outer Jacket Material PVC - Polyvinyl Chloride | | | | |
| | | | | |
| Overall Cabling Overall Nominal Diameter: | | 0.274 in. | | |
| | | 0.274 111. | | |
| Mechanical Characteristics (| Overall) | | | |
| Operating Temperature Range |): | -30°C To +75°C | | |
| UL Temperature Rating: | | 75°C | | |
| Bulk Cable Weight: | | 40 lbs/1000 ft. | | |
| Max. Recommended Pulling T | ension: | 69 lbs. | | |
| Min. Bend Radius (Install)/Min | or Axis: | 2.750 in. | | |
| | | | | |
| Applicable Specifications an | | | | |
| Applicable Standards & Enviro NEC/(UL) Specification: | millentai Prog | CMR | | |
| CEC/C(UL) Specification: | | CMG | | |
| | | | | |
| EU CE Mark: | | Yes | | |
| EU Directive 2000/53/EC (ELV) | | Yes | | |
| EU Directive 2002/95/EC (RoH | S): | Yes | | |
| EU RoHS Compliance Date (m | m/dd/yyyy): | 01/01/2004 | | |
| EU Directive 2002/96/EC (WEE | E): | Yes | | |
| | | | | |

Detailed Specifications & Technical Data

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143.000

2.300



1694A Coax - Low Loss Serial Digital Coax

| EU Dire | ective 2003/11/EC (BFF | R): | Yes | |
|--------------------|---|----------|------------------------|-------------------------------|
| CA Pro | p 65 (CJ for Wire & Ca | able): | Yes | |
| MII Ord | er #39 (China RoHS): | | Yes | |
| RG Typ | | | 6/U | |
| ame Tes | | | 0,0 | |
| | ne Test: | | UL1666 Vertical Shaft | |
| | | | | |
| uitability | lity - Indoor: | | Yes | |
| | | | | |
| | lity - Outdoor: | | Yes - Black only | |
| Suitabi | lity - Aerial: | | Yes - Black only, when | supported by a messenger wire |
| lenum/No | on-Plenum | | | |
| Plenum | (Y/N): | | No | |
| Plenum | Number: | | 1695A | |
| optrical | Characteristics (| Quarell | | |
| | Characteristics (C acteristic Impedance: | overall) | | |
| Impedanc | • | | | |
| 75 | | | | |
| lom. Induc | tance: | | | |
| Inductanc | | | | |
| 0.106 | | | | |
| om. Capad | citance Conductor to | Shield: | | |
| Capacitan | ce (pF/ft) | | | |
| 16.2 | | | | |
| Nominal Ve | locity of Propagation: | : | | |
| VP (%) | | | | |
| 82 | | | | |
| Nominal De | - | | | |
| Delay (ns/ | ft) | | | |
| 1.24 | | | | |
| | uctor DC Resistance: | | | |
| - | °C (Ohm/1000 ft) | | | |
| 6.4 | | | | |
| | ter Shield DC Resista | ance: | | |
| DCR @ 20 2.8 | °C (Ohm/1000 ft) | | | |
| | | | | |
| Nom. Atten | | | | |
| Freq. (MH 1.000 | z) Attenuation (dB/100 ft 0.240 | t.) | | |
| 3.580 | 0.240 | | | |
| 5.000 | 0.520 | - | | |
| 6.000 | 0.570 | | | |
| 7.000 | 0.610 | | | |
| 10.000 12.000 | 0.710 | _ | | |
| 25.000 | 1.080 | | | |
| 67.500 | 1.650 | - | | |
| 71.500 | 1.690 | | | |
| 88.500 | 1.860 | | | |
| 100.000 135.000 | 1.950 2.240 | _ | | |
| 135.000 | 2.240 | _ | | |



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| 1694A | Coax - Low | Loss Serial | Digital Coax |
|-------|------------|-------------|---------------------|
|-------|------------|-------------|---------------------|

| 180.000 | 2.570 |
|----------|--------|
| 270.000 | 3.170 |
| 360.000 | 3.690 |
| 540.000 | 4.600 |
| 720.000 | 5.380 |
| 750.000 | 5.500 |
| 1000.000 | 6.420 |
| 1500.000 | 7.990 |
| 2000.000 | 9.370 |
| 2250.000 | 10.010 |
| 3000.000 | 11.780 |
| 4500.000 | 14.920 |
| | |

Max. Operating Voltage - UL:

Voltage

300 V RMS

Other Electrical Characteristic 1:

| Other Electrical Characteristic 2: | Return Loss tested in a |
|------------------------------------|-------------------------|

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

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

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.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|-------------|-------|--------------------------|
| 1694A N3U1000 | 1,000 FT | 45.000 LB | GREEN, MIL | С | #18 PE/GIFHDPE SH FR PVC |
| 1694A N3U5000 | 5,000 FT | 225.000 LB | GREEN, MIL | CN | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0011000 | 1,000 FT | 45.000 LB | BROWN | С | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0015000 | 5,000 FT | 225.000 LB | BROWN | CN | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0021000 | 1,000 FT | 45.000 LB | RED | С | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0025000 | 5,000 FT | 225.000 LB | RED | CN | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0031000 | 1,000 FT | 45.000 LB | ORANGE | С | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0041000 | 1,000 FT | 45.000 LB | YELLOW | С | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0061000 | 1,000 FT | 45.000 LB | BLUE, LIGHT | С | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0065000 | 5,000 FT | 225.000 LB | BLUE, LIGHT | CN | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0071000 | 1,000 FT | 45.000 LB | VIOLET | С | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0075000 | 5,000 FT | 225.000 LB | VIOLET | CN | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0081000 | 1,000 FT | 45.000 LB | GRAY | С | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0085000 | 5,000 FT | 225.000 LB | GRAY | CN | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0091000 | 1,000 FT | 45.000 LB | WHITE | С | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0101000 | 1,000 FT | 45.000 LB | BLACK | С | #18 PE/GIFHDPE SH FR PVC |
| 1694A 010500 | 500 FT | 20.500 LB | BLACK | С | #18 PE/GIFHDPE SH FR PVC |
| 1694A 0105000 | 5,000 FT | 225.000 LB | BLACK | CN | #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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Revision Number: 13 Revision Date: 03-23-2009

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