

1794A Coax - Low Loss Serial Digital Coax



For more Information
please call

1-800-Belden1



Description:

16 AWG solid 0.051" bare copper conductor, gas-injected foamed high-density polyethylene insulation, Duofoil® + tinned copper braid shield (95% coverage) plus Beldfoil® with shorting fold, PVC jacket.

Usage (Overall)

Suitable Applications: SMPTE 424M 3 Gb/s HD-SDI 1080p

Physical Characteristics (Overall)

Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------|-----|-----------|--------------------|------------|
| 1 | 16 | Solid | BC - Bare Copper | 0.051 |

Total Number of Conductors: 1

Insulation

Insulation Material:

| Insulation Material | Dia. (in.) |
|---|------------|
| Gas-injected FHDPE - Foam High Density Polyethylene | 0.225 |

Outer Shield

Outer Shield Material:

| Layer # | Outer Shield Trade Name | Type | Outer Shield Material | Coverage (%) |
|---------|------------------------------|-------|--|--------------|
| 1 | Duofoil® | Tape | Aluminum Foil-Polyester Tape-Aluminum Foil | 100.000 |
| 2 | | Braid | TC - Tinned Copper | 95.000 |
| 3 | Beldfoil® with shorting fold | Tape | Polyester Tape-Aluminum Foil | 100.000 |

Outer Jacket

Outer Jacket Material:

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

Overall Cable

Overall Nominal Diameter: 0.320 in.

Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 59 lbs/1000 ft.

Max. Recommended Pulling Tension: 111 lbs.

Min. Bend Radius/Minor Axis: 3.250 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

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| | |
|---------------------------------------|------------|
| 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 |
| Series Type: | Series 7 |

Flame Test

| | |
|-----------------|-----------------------|
| UL Flame Test: | UL1666 Vertical Shaft |
| CSA Flame Test: | FT4 |

Suitability

| | |
|-----------------------|-----|
| Suitability - Indoor: | Yes |
|-----------------------|-----|

Plenum/Non-Plenum

| | |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

75

Nom. Inductance:

Inductance (µH/ft)

0.091

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

16.100

Nominal Velocity of Propagation:

VP (%)

84.000

Nominal Delay:

Delay (ns/ft)

1.210

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

4.000

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

1.900

Nom. Attenuation:

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

| | |
|---------|-------|
| 1.000 | 0.170 |
| 3.580 | 0.300 |
| 5.000 | 0.350 |
| 6.000 | 0.380 |
| 7.000 | 0.400 |
| 10.000 | 0.480 |
| 12.000 | 0.520 |
| 25.000 | 0.740 |
| 55.000 | 1.080 |
| 67.500 | 1.200 |
| 71.500 | 1.240 |
| 88.500 | 1.370 |
| 100.000 | 1.460 |

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| | |
|----------|--------|
| 135.000 | 1.700 |
| 143.000 | 1.750 |
| 180.000 | 1.970 |
| 270.000 | 2.430 |
| 360.000 | 2.830 |
| 540.000 | 3.500 |
| 720.000 | 4.090 |
| 750.000 | 4.180 |
| 1000.000 | 4.890 |
| 1500.000 | 6.100 |
| 2000.000 | 7.200 |
| 2250.000 | 7.690 |
| 3000.000 | 9.080 |
| 4500.000 | 11.530 |

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 +/- 3 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.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|-------------|-------|------------------------------|
| 1794A N3U1000 | 1,000 FT | 63.000 LB | GREEN, MIL | C | #16 LDPE/GIFHDLDPPE SH FRPVC |
| 1794A 0011000 | 1,000 FT | 63.000 LB | BROWN | C | #16 LDPE/GIFHDLDPPE SH FRPVC |
| 1794A 0021000 | 1,000 FT | 63.000 LB | RED | C | #16 LDPE/GIFHDLDPPE SH FRPVC |
| 1794A 0031000 | 1,000 FT | 63.000 LB | ORANGE | C | #16 LDPE/GIFHDLDPPE SH FRPVC |
| 1794A 0041000 | 1,000 FT | 63.000 LB | YELLOW | C | #16 LDPE/GIFHDLDPPE SH FRPVC |
| 1794A 0061000 | 1,000 FT | 63.000 LB | BLUE, LIGHT | C | #16 LDPE/GIFHDLDPPE SH FRPVC |
| 1794A 0071000 | 1,000 FT | 63.000 LB | VIOLET | C | #16 LDPE/GIFHDLDPPE SH FRPVC |
| 1794A 0081000 | 1,000 FT | 63.000 LB | GRAY | C | #16 LDPE/GIFHDLDPPE SH FRPVC |
| 1794A 0091000 | 1,000 FT | 63.000 LB | WHITE | C | #16 LDPE/GIFHDLDPPE SH FRPVC |
| 1794A 0101000 | 1,000 FT | 63.000 LB | BLACK | C | #16 LDPE/GIFHDLDPPE SH FRPVC |

Notes:

C = CRATE REEL PUT-UP.

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Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9