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1-800-Belden1



General Description:

Low Loss Serial Digital Coax, Plenum-CMP, RG6 18 AWG solid bare copper conductor, foam FEP core, Duofoil®+95% tinned copper braid, Flamarrest® jacket

Usage (Overall)

Suitable Applications: SMPTE 2081-1 6 Gb/s UHD TV, SMPTE 424M 3 Gb/s HD-SDI 1080p

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 Trade Name | Insulation Material | Dia. (mm) |
|-----------------------|--|-----------|
| Teflon® | FFEP - Foam Fluorinated Ethylene Propylene | 4.318 |

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 Trade Name | Outer Jacket Material |
|-------------------------|---------------------------------------|
| Flamarrest® | LS PVC - Low Smoke Polyvinyl Chloride |

Overall Cable

Overall Nominal Diameter: 5.817 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°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: 63.500 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

EU Directive 2011/65/EU (ROHS II): Yes

EU CE Mark: No

| | |
|---------------------------------------|------------|
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2002/95/EC (RoHS): | Yes |
| EU RoHS Compliance Date (mm/dd/yyyy): | 04/01/2005 |
| 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: | NFPA 262 |
| CSA Flame Test: | FT6 |

Suitability

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

Plenum/Non-Plenum

| | |
|--------------------|-------|
| Plenum (Y/N): | Yes |
| Non-Plenum Number: | 1694A |

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

75

Nom. Inductance:

Inductance (µH/m)

0.337943

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

52.8241

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 | 1.476 |
| 5.000 | 1.805 |
| 7.000 | 2.133 |
| 10.000 | 2.461 |
| 67.500 | 5.709 |
| 71.500 | 5.840 |
| 88.500 | 6.365 |
| 100.000 | 6.890 |

1695A Coax - Low Loss Serial Digital Coax

| | |
|----------|--------|
| 135.000 | 7.874 |
| 143.000 | 8.203 |
| 180.000 | 9.187 |
| 270.000 | 11.155 |
| 360.000 | 13.124 |
| 540.000 | 17.061 |
| 720.000 | 20.014 |
| 750.000 | 20.342 |
| 1000.000 | 24.279 |
| 1500.000 | 31.170 |
| 2000.000 | 37.075 |
| 2250.000 | 40.028 |
| 3000.000 | 47.903 |
| 4500.000 | 61.027 |
| 6000.000 | 73.494 |

Max. Operating Voltage - UL:

| |
|----------------|
| Voltage |
| 300 V RMS |

Other Electrical Characteristic 1: Impedance: 75 +/- 3 Ohms

Other Electrical Characteristic 2: Return Loss: 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 |
| 4500.000 | 6000.000 | 15.000 |

Sweep Test

Sweep Testing: 100#37; Sweep tested 5 MHz to 6 GHz.

Notes (Overall)

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Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|----------------|-----------|-------------|-------------|-------|-------------------|
| 1695A N3U1000 | 1,000 FT | 44.000 LB | GREEN, MIL | C | #18 FFEP SH FLRST |
| 1695A N3U10000 | 10,000 FT | 370.000 LB | GREEN, MIL | | #18 FFEP SH FLRST |
| 1695A 0011000 | 1,000 FT | 44.000 LB | BROWN | C | #18 FFEP SH FLRST |
| 1695A 00110000 | 10,000 FT | 370.000 LB | BROWN | | #18 FFEP SH FLRST |
| 1695A 002Z1000 | 1,000 FT | 40.000 LB | RED | | #18 FFEP SH FLRST |
| 1695A 0021000 | 1,000 FT | 44.000 LB | RED | C | #18 FFEP SH FLRST |
| 1695A 00210000 | 10,000 FT | 370.000 LB | RED | | #18 FFEP SH FLRST |
| 1695A 003Z1000 | 1,000 FT | 40.000 LB | ORANGE | | #18 FFEP SH FLRST |
| 1695A 0031000 | 1,000 FT | 44.000 LB | ORANGE | C | #18 FFEP SH FLRST |
| 1695A 00310000 | 10,000 FT | 370.000 LB | ORANGE | | #18 FFEP SH FLRST |
| 1695A 004Z1000 | 1,000 FT | 40.000 LB | YELLOW | | #18 FFEP SH FLRST |
| 1695A 0041000 | 1,000 FT | 44.000 LB | YELLOW | C | #18 FFEP SH FLRST |
| 1695A 00410000 | 10,000 FT | 370.000 LB | YELLOW | | #18 FFEP SH FLRST |
| 1695A 006Z1000 | 1,000 FT | 40.000 LB | BLUE, LIGHT | | #18 FFEP SH FLRST |
| 1695A 0061000 | 1,000 FT | 44.000 LB | BLUE, LIGHT | C | #18 FFEP SH FLRST |
| 1695A 00610000 | 10,000 FT | 370.000 LB | BLUE, LIGHT | | #18 FFEP SH FLRST |
| 1695A 006500 | 500 FT | 22.000 LB | BLUE, LIGHT | | #18 FFEP SH FLRST |
| 1695A 007Z1000 | 1,000 FT | 40.000 LB | VIOLET | | #18 FFEP SH FLRST |
| 1695A 0071000 | 1,000 FT | 44.000 LB | VIOLET | C | #18 FFEP SH FLRST |
| 1695A 00710000 | 10,000 FT | 370.000 LB | VIOLET | | #18 FFEP SH FLRST |
| 1695A 0075000 | 5,000 FT | 220.000 LB | VIOLET | | #18 FFEP SH FLRST |
| 1695A 0081000 | 1,000 FT | 44.000 LB | GRAY | C | #18 FFEP SH FLRST |
| 1695A 00810000 | 10,000 FT | 370.000 LB | GRAY | | #18 FFEP SH FLRST |

METRIC MEASUREMENT VERSION

1695A Coax - Low Loss Serial Digital Coax

| | | | | | |
|----------------|-----------|------------|---------|---|-------------------|
| 1695A 010Z1000 | 1,000 FT | 40.000 LB | BLACK | | #18 FFEP SH FLRST |
| 1695A 010Z500 | 500 FT | 22.000 LB | BLACK | | #18 FFEP SH FLRST |
| 1695A 0101000 | 1,000 FT | 44.000 LB | BLACK | C | #18 FFEP SH FLRST |
| 1695A 01010000 | 10,000 FT | 370.000 LB | BLACK | | #18 FFEP SH FLRST |
| 1695A 010500 | 500 FT | 22.000 LB | BLACK | C | #18 FFEP SH FLRST |
| 1695A 0105000 | 5,000 FT | 210.000 LB | BLACK | C | #18 FFEP SH FLRST |
| 1695A 877Z1000 | 1,000 FT | 40.000 LB | NATURAL | | #18 FFEP SH FLRST |
| 1695A 8771000 | 1,000 FT | 44.000 LB | NATURAL | C | #18 FFEP SH FLRST |
| 1695A 87710000 | 10,000 FT | 370.000 LB | NATURAL | | #18 FFEP SH FLRST |
| 1695A 877500 | 500 FT | 22.000 LB | NATURAL | Z | #18 FFEP SH FLRST |

Notes:

C = CRATE REEL PUT-UP.

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

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