



Product: [1695A](#)

75 Ohm SDI Coax, RG-6, 18 AWG Solid BC, Foil + 95% TC Braid, PVC Jkt, CMP

Product Description

75 Ohm SDI Coax, RG-6, 18 AWG Solid Bare Copper Conductor, FEP Insulation, Foil + 95% Tinned Copper Braid Shield, PVC Jacket, CMP

Technical Specifications

Product Overview

| | |
|------------------------|---|
| Suitable Applications: | Digital Video, 6 Gb/s UHDTV, HD-SDI 1080p |
|------------------------|---|

Construction Details

| | |
|----------|---|
| RG Type: | 6 |
|----------|---|

Conductor

| Size | Stranding | Nom. Diameter | Material |
|--------|-----------|---------------|------------------|
| 18 AWG | Solid | 0.040 in | BC - Bare Copper |

Insulation

| Material | Nom. Insulation Diameter |
|---|--------------------------|
| FEP - Fluorinated Ethylene Propylene (Foam) | 0.170 in (4.32 mm) |

Outer Shield

| Layer | Outer Shield Type | Material | Material Trade Name | Coverage |
|-------|-------------------|-------------------------------|---------------------|----------|
| 1 | Tape | Tri-Laminate (Alum+Poly+Alum) | Duofoil® | 100% |
| 2 | Braid | Tinned Copper (TC) | | 95% |

Outer Jacket

| Material | Nom. Diameter |
|--------------------------|--------------------|
| PVC - Polyvinyl Chloride | 0.229 in (5.82 mm) |

| | |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.229 in (5.82 mm) |
|-----------------------------------|--------------------|

Electrical Characteristics

Return Loss (RL)

| Frequency | Min. Return Loss |
|-----------------|------------------|
| 5 - 1600 MHz | 23 dB |
| 1600 - 4500 MHz | 21 dB |
| 4500 - 6000 MHz | 15 dB |

Attenuation

| Frequency | Nom. Attenuation |
|-----------|------------------|
| 1 MHz | 0.24 dB/100ft |
| 3.58 MHz | 0.45 dB/100ft |
| 5 MHz | 0.55 dB/100ft |
| 7 MHz | 0.65 dB/100ft |
| 10 MHz | 0.75 dB/100ft |
| 67.5 MHz | 1.74 dB/100ft |
| 71.5 MHz | 1.78 dB/100ft |
| 88.5 MHz | 1.94 dB/100ft |

| | |
|----------|---------------|
| 100 MHz | 2.1 dB/100ft |
| 135 MHz | 2.4 dB/100ft |
| 143 MHz | 2.5 dB/100ft |
| 180 MHz | 2.8 dB/100ft |
| 270 MHz | 3.4 dB/100ft |
| 360 MHz | 4.0 dB/100ft |
| 540 MHz | 5.2 dB/100ft |
| 720 MHz | 6.1 dB/100ft |
| 750 MHz | 6.2 dB/100ft |
| 1000 MHz | 7.4 dB/100ft |
| 1500 MHz | 9.5 dB/100ft |
| 2000 MHz | 11.3 dB/100ft |
| 2250 MHz | 12.2 dB/100ft |
| 3000 MHz | 14.6 dB/100ft |
| 4500 MHz | 18.6 dB/100ft |
| 6000 MHz | 22.4 dB/100ft |

Electricals

| Nom. Conductor DCR | Nom. Outer Shield DCR | Nom. Capacitance Cond-to-Shield | Nom. Characteristic Impedance | Nom. Velocity of Prop. |
|----------------------------|-----------------------------|---------------------------------|-------------------------------|------------------------|
| 6.4 Ohm/1000ft (21 Ohm/km) | 2.8 Ohm/1000ft (9.2 Ohm/km) | 16.2 pF/ft (53.1 pF/m) | 75 Ohm | 83% |

Voltage

| UL Voltage Rating |
|-------------------|
| 300 V (CMP) |

Mechanical Characteristics

Temperature

| UL Temperature | Operating |
|----------------|--------------|
| 75°C | 0°C to +75°C |

Bend Radius

| Installation Min. |
|-------------------|
| 2.3 in |

| | |
|--------------------|----------------|
| Max. Pull Tension: | 69 lbs (31 kg) |
| Bulk Cable Weight: | 41 lbs/1000ft |

Standards and Compliance

| | |
|----------------------------------|--|
| Environmental Suitability: | Indoor - Plenum, Indoor |
| Sustainability: | CA Prop 65 |
| Flammability / Reaction to Fire: | NFPA 262, FT6 |
| NEC / UL Compliance: | CMP |
| CEC / C(UL) Compliance: | CMP |
| European Directive Compliance: | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |
| Non-Plenum Number: | 1694A |

History

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| Update and Revision: | Revision Number: 0.362 Revision Date: 04-08-2022 |
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Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC |
|----------------|-------------|--------------|-----------|--------------|
| 1695A 010500 | Black | Reel | 500 ft | 612825121206 |
| 1695A 010Z500 | Black | ReelTuff Box | 500 ft | 612825434603 |
| 1695A 0101000 | Black | Reel | 1,000 ft | 612825121190 |
| 1695A 010Z1000 | Black | ReelTuff Box | 1,000 ft | 612825434504 |
| 1695A 0105000 | Black | Reel | 5,000 ft | 612825121213 |
| 1695A 01010000 | Black | Reel | 10,000 ft | 612825435662 |
| 1695A 006500 | Blue, Light | Reel | 500 ft | 612825352938 |
| 1695A 0061000 | Blue, Light | Reel | 1,000 ft | 612825121169 |

| | | | | |
|----------------|-------------|--------------|-----------|--------------|
| 1695A 006Z1000 | Blue, Light | ReelTuff Box | 1,000 ft | 612825434474 |
| 1695A 00610000 | Blue, Light | Reel | 10,000 ft | 612825435716 |
| 1695A 0011000 | Brown | Reel | 1,000 ft | 612825121121 |
| 1695A 00110000 | Brown | Reel | 10,000 ft | 612825435679 |
| 1695A 0081000 | Gray | Reel | 1,000 ft | 612825121183 |
| 1695A 00810000 | Gray | Reel | 10,000 ft | 612825435747 |
| 1695A N3U1000 | Green, Mil | Reel | 1,000 ft | 612825121114 |
| 1695A N3U10000 | Green, Mil | Reel | 10,000 ft | 612825435761 |
| 1695A 877500 | Natural | Reel | 500 ft | 612825121237 |
| 1695A 8771000 | Natural | Reel | 1,000 ft | 612825121220 |
| 1695A 877Z1000 | Natural | ReelTuff Box | 1,000 ft | 612825434511 |
| 1695A 87710000 | Natural | Reel | 10,000 ft | 612825435754 |
| 1695A 0031000 | Orange | Reel | 1,000 ft | 612825121145 |
| 1695A 003Z1000 | Orange | ReelTuff Box | 1,000 ft | 612825434450 |
| 1695A 00310000 | Orange | Reel | 10,000 ft | 612825435693 |
| 1695A 0021000 | Red | Reel | 1,000 ft | 612825121138 |
| 1695A 002Z1000 | Red | ReelTuff Box | 1,000 ft | 612825434429 |
| 1695A 00210000 | Red | Reel | 10,000 ft | 612825435686 |
| 1695A 0071000 | Violet | Reel | 1,000 ft | 612825121176 |
| 1695A 007Z1000 | Violet | ReelTuff Box | 1,000 ft | 612825434481 |
| 1695A 0075000 | Violet | Reel | 5,000 ft | 612825353195 |
| 1695A 00710000 | Violet | Reel | 10,000 ft | 612825435730 |
| 1695A 0041000 | Yellow | Reel | 1,000 ft | 612825121152 |
| 1695A 004Z1000 | Yellow | ReelTuff Box | 1,000 ft | 612825434467 |
| 1695A 00410000 | Yellow | Reel | 10,000 ft | 612825435709 |

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