



Product: [1505A](#)

75 Ohm SDI Coax, RG-59, 20 AWG Solid BC, Foil + 95% TC Braid, PVC Jkt, CMR

Product Description

75 Ohm SDI Coax, RG-59, 20 AWG Solid Bare Copper Conductor, PE Insulation, Foil + 95% Tinned Copper Braid Shield, PVC Jacket, CMR

Technical Specifications

Product Overview

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

Construction Details

| | |
|----------|----|
| RG Type: | 59 |
|----------|----|

Conductor

| AWG | Stranding | Nom. Diameter | Material |
|-----|-----------|---------------|------------------|
| 20 | Solid | 0.032 in | BC - Bare Copper |

Insulation

| Material | Nom. Diameter |
|--------------------------|---------------|
| PE - Polyethylene (Foam) | 0.145 in |

Outer Shield Material

| 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

| Material | Nom. Diameter |
|--------------------------|---------------|
| PVC - Polyvinyl Chloride | 0.233 in |

Electrical Characteristics

Return Loss (RL)

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

Attenuation

| Frequency | Nom. Attenuation [dB/100ft] |
|-----------|-----------------------------|
| 1 MHz | 0.3 dB/100ft |
| 3.58 MHz | 0.6 dB/100ft |
| 5 MHz | 0.63 dB/100ft |
| 6 MHz | 0.69 dB/100ft |
| 7 MHz | 0.74 dB/100ft |
| 10 MHz | 0.9 dB/100ft |
| 12 MHz | 0.91 dB/100ft |
| 25 MHz | 1.3 dB/100ft |

| | |
|----------|---------------|
| 67.5 MHz | 2.05 dB/100ft |
| 71.5 MHz | 2.1 dB/100ft |
| 88.5 MHz | 2.2 dB/100ft |
| 100 MHz | 2.3 dB/100ft |
| 135 MHz | 2.7 dB/100ft |
| 143 MHz | 2.8 dB/100ft |
| 180 MHz | 3.1 dB/100ft |
| 270 MHz | 3.8 dB/100ft |
| 360 MHz | 4.4 dB/100ft |
| 540 MHz | 5.5 dB/100ft |
| 720 MHz | 6.4 dB/100ft |
| 750 MHz | 6.5 dB/100ft |
| 1000 MHz | 7.6 dB/100ft |
| 1500 MHz | 9.5 dB/100ft |
| 2000 MHz | 11.2 dB/100ft |
| 2250 MHz | 11.9 dB/100ft |
| 3000 MHz | 14.0 dB/100ft |
| 4500 MHz | 17.5 dB/100ft |
| 6000 MHz | 21.1 dB/100ft |

Electricals

| Nom. Conductor DCR | Nom. Outer Shield DCR | Nom. Capacitance Cond-to-Shield | Nom. Characteristic Impedance | Nom. Velocity |
|--------------------|-----------------------|---------------------------------|-------------------------------|---------------|
| 10 Ohm/1000ft | 3.8 Ohm/1000ft | 16.3 pF/ft | 75 Ohm | 82% |

Voltage

| UL Voltage Rating |
|-------------------|
| 300 V (CMR, CMG) |

Mechanical Characteristics

Temperature

| UL Rating | Operating |
|-----------|----------------|
| 60°C | -20°C to +75°C |

Bend Radius

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

| | |
|--------------------|---------------|
| Bulk Cable Weight: | 31 lbs/1000ft |
| Max. Pull Tension: | 52 lbs |

Standards and Compliance

| | |
|---------------------------------|--|
| Environmental Suitability: | Indoor/Outdoor, Indoor, UV Resistance |
| Sustainability: | CA Prop 65 |
| Flammability / Fire Resistance: | UL1666 Vertical Shaft, FT4 |
| NEC / UL Compliance: | CMR |
| CEC / C(UL) Compliance: | CMG |
| 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) |
| Plenum Number: | 1506A |

Product Notes

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| Notes: | Also available in multi-coax bundled versions. See 7794A through 7798A. Print legend includes sequential footage marks. |
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History

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| Update and Revision: | Revision Number: 0.355 Revision Date: 05-26-2021 |
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