



Product: [7731SB](#)

75 Ohm SDI Coax, RG-11, 14 AWG, Solid BC, Foil + 95% TC Braid, LSZH Jkt, CMG-LS, ABS Certified

Product Description

75 Ohm SDI Coax, RG-11, 14 AWG Solid Bare Copper Conductor, PE Insulation, Foil + 95% Tinned Copper Braid Shield, LSZH Jacket, CMG-LS, Shipboard ABS Type Approved

Technical Specifications

Product Overview

| | |
|------------------------|---|
| Suitable Applications: | Digital Video, HD-SDI 1080p, ABS approved for marine shipboard and offshore use |
|------------------------|---|

Construction Details

| | |
|----------|----|
| RG Type: | 11 |
|----------|----|

Conductor

| AWG | Stranding | Nom. Diameter | Material |
|-----|-----------|---------------|------------------|
| 14 | Solid | 0.064 in | BC - Bare Copper |

Insulation

| Material | Nom. Diameter |
|--------------------------|---------------|
| PE - Polyethylene (Foam) | 0.280 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 |
|---|---------------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 0.400 in |

Electrical Characteristics

Return Loss (RL)

| Frequency [MHz] | Min. Return Loss [dB] |
|-----------------|-----------------------|
| 5 - 850 MHz | 23 dB |
| 850 - 3000 MHz | 21 dB |

Attenuation

| Frequency | Nom. Attenuation [dB/100ft] |
|-----------|-----------------------------|
| 1 MHz | 0.16 dB/100ft |
| 3.58 MHz | 0.29 dB/100ft |
| 5 MHz | 0.34 dB/100ft |
| 7 MHz | 0.39 dB/100ft |
| 10 MHz | 0.46 dB/100ft |
| 67.5 MHz | 1.05 dB/100ft |
| 71.5 MHz | 1.09 dB/100ft |
| 88.5 MHz | 1.21 dB/100ft |

| | |
|----------|---------------|
| 100 MHz | 1.28 dB/100ft |
| 135 MHz | 1.47 dB/100ft |
| 143 MHz | 1.51 dB/100ft |
| 180 MHz | 1.69 dB/100ft |
| 270 MHz | 2.09 dB/100ft |
| 360 MHz | 2.45 dB/100ft |
| 540 MHz | 3.06 dB/100ft |
| 720 MHz | 3.58 dB/100ft |
| 750 MHz | 3.66 dB/100ft |
| 800 MHz | 3.79 dB/100ft |
| 1000 MHz | 4.3 dB/100ft |
| 1500 MHz | 5.5 dB/100ft |
| 2000 MHz | 6.4 dB/100ft |
| 2250 MHz | 6.9 dB/100ft |
| 3000 MHz | 8.2 dB/100ft |
| 4500 MHz | 10.4 dB/100ft |

Electricals

| Nom. Conductor DCR | Nom. Outer Shield DCR | Nom. Capacitance Cond-to-Shield | Nom. Impedance | Nom. Velocity |
|--------------------|-----------------------|---------------------------------|----------------|---------------|
| 2.5 Ohm/1000ft | 1.5 Ohm/1000ft | 16.1 pF/ft | 75 Ohm | 84% |

Voltage

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

Mechanical Characteristics

Temperature

| UL Rating | Operating |
|-----------|----------------|
| 75°C | -30°C to +75°C |

Bend Radius

| Installation Min. |
|-------------------|
| 4 in |

| | |
|--------------------|---------------|
| Bulk Cable Weight: | 93 lbs/1000ft |
| Max. Pull Tension: | 145 lbs |

Standards and Compliance

| | |
|---------------------------------|---|
| Environmental Suitability: | Indoor/Outdoor, Indoor |
| Sustainability: | CA Prop 65 |
| Flammability / Fire Resistance: | UL1685 FT4 Loading, Limited Smoke, FT4, 1202, 60332-1, 60332-3-22 (Category A) |
| NEC / UL Compliance: | CMG-LS |
| CEC / C(UL) Compliance: | CMG-LS |
| IEEE Compliance: | Std. 45 clause 23 |
| European Directive Compliance: | EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |
| Other Standard Compliance(s): | ABS Type Approval Certificate 19-HS1852547 |

History

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| Update and Revision: | Revision Number: 0.330 Revision Date: 09-30-2020 |
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