



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

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

Insulation

| Material | Nom. Insulation Diameter | Color Code |
|--------------------------|--------------------------|------------|
| PE - Polyethylene (Foam) | 0.280 in (7.11 mm) | White |

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 |
|---|--------------------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 0.400 in (10.2 mm) |

| | |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.400 in (10.2 mm) |
|-----------------------------------|--------------------|

Electrical Characteristics

Return Loss (RL)

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

Attenuation

| Frequency | Nom. Attenuation |
|-----------|------------------|
| 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. Characteristic Impedance | Nom. Velocity of Prop. |
|--------------------|-----------------------------|---------------------------------|-------------------------------|------------------------|
| 2.5 Ohm/1000ft | 1.5 Ohm/1000ft (4.9 Ohm/km) | 16.1 pF/ft (52.8 pF/m) | 75 Ohm | 84% |

Voltage

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

Mechanical Characteristics

Temperature

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

Bend Radius

| Installation Min. |
|-------------------|
| 4 in (100 mm) |

| | |
|--------------------|-------------------|
| Max. Pull Tension: | 145 lbs (65.8 kg) |
| Bulk Cable Weight: | 89 lbs/1000ft |

Standards and Compliance

| | |
|----------------------------------|--|
| Environmental Suitability: | Indoor/Outdoor, Indoor, Aerial - Black only, When supported by messenger wire |
| Sustainability: | CA Prop 65 |
| Flammability / Reaction to Fire: | UL1685 FT4 Loading, Limited Smoke, 1202, IEC 60332-1-2, IEC 60332-3-22 |
| CPR Compliance: | CPR Euroclass: Dca-s2,d1,a1 |
| 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 (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| UK Regulation Compliance: | UKCA Mark |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |

History

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|----------------------|--|
| Update and Revision: | Revision Number: 0.508 Revision Date: 04-29-2024 |
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Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC | Footnote |
|----------------|-------|------------|----------|--------------|----------|
| 7731SB 0101000 | Black | Reel | 1,000 ft | 612825354963 | C |

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