



Product: [1855ELW](#) 

1855ELW - 75 Ohm SDI Coax, Mini RG-59, 22 AWG Solid BC, Foil + 90% TC Braid, LSZH Jkt, CPR: Cca

Product Description

75 Ohm SDI Coax, Mini RG-59, 22 AWG Solid Bare Copper Conductor, PE Insulation, Foil + 90% Tinned Copper Braid Shield, LSZH Jacket, Cca.

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Suitable Applications: | Digital Video, 6 Gb/s UHDTV, HD-SDI 1080p; The cable is UV-resistant and suitable for indoor and outdoor use |
|------------------------|--|

Construction Details

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

Conductor

| No. of Elements | Size | Stranding | Nom. Diameter | Material |
|-----------------|--------|-----------|---------------|------------------|
| 1 | 22 AWG | Solid | 0.65 mm | BC - Bare Copper |

Insulation

| Element | Material | Nom. Insulation Diameter |
|---------------------|--------------------------|--------------------------|
| Insulated Conductor | PE - Polyethylene (Foam) | 2.9 mm (0.11 in) |

Outer Shield

| Layer | Outer Shield Type | Material | Coverage |
|-------|-------------------|-------------------------------|----------|
| 1 | Tape | Tri-Laminate (Alum+Poly+Alum) | 100% |
| 2 | Braid | Tinned Copper (TC) | 90% |

Outer Jacket

| Material | Nom. Diameter |
|---|---------------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 4.6 mm |

| | |
|--------------|----------------------------|
| Table Notes: | According to EN 50290-2-20 |
|--------------|----------------------------|

Electrical Characteristics

Return Loss (RL)

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

Attenuation

| Frequency | Nom. Attenuation |
|-----------|------------------|
| 1 MHz | 1.7 dB/100m |
| 3.6 MHz | 2.5 dB/100m |
| 5 MHz | 2.8 dB/100m |
| 6 MHz | 3 dB/100m |
| 7 MHz | 3.2 dB/100m |
| 10 MHz | 3.7 dB/100m |
| 12 MHz | 4 dB/100m |
| 25 MHz | 5.4 dB/100m |

| | |
|----------|--------------|
| 67.5 MHz | 8.3 dB/100m |
| 71.5 MHz | 8.6 dB/100m |
| 88.5 MHz | 9.5 dB/100m |
| 100 MHz | 10 dB/100m |
| 135 MHz | 11.5 dB/100m |
| 143 MHz | 11.9 dB/100m |
| 180 MHz | 13.2 dB/100m |
| 270 MHz | 16.1 dB/100m |
| 360 MHz | 18.6 dB/100m |
| 540 MHz | 22.8 dB/100m |
| 720 MHz | 26.4 dB/100m |
| 750 MHz | 26.9 dB/100m |
| 1000 MHz | 31.3 dB/100m |
| 1500 MHz | 38.7 dB/100m |
| 2000 MHz | 45 dB/100m |
| 2250 MHz | 48 dB/100m |
| 2500 MHz | 50.8 dB/100m |
| 3000 MHz | 56.1 dB/100m |
| 4000 MHz | 65.7 dB/100m |
| 4500 MHz | 70.2 dB/100m |

Electricals

| Max. Conductor DCR | Nom. Capacitance Cond-to-Shield | Nom. Characteristic Impedance | Nom. Velocity of Prop. |
|---------------------------|---------------------------------|-------------------------------|------------------------|
| 55 Ohm/km (17 Ohm/1000ft) | 53 pF/m (16 pF/ft) | 75 Ohm | 84% |

Transfer Impedance

| Frequency | Max. Transfer Impedance |
|-----------|-------------------------|
| 5-30 MHz | Max. 15 mOhm/m |

Screening

| Frequency | Min. Screening Attenuation |
|-----------------|----------------------------|
| 30 - 1000 MHz | 85 dB |
| 1000 - 2000 MHz | |
| 2000 - 3000 MHz | |
| 3000 - 4500 MHz | |

Screening Class: B

Mechanical Characteristics

Temperature

| Operating | Installation | Storage |
|----------------|---------------|----------------|
| -30°C To +70°C | -5°C To +50°C | -30°C To +70°C |

Max. Pull Tension: 160 N (36 lbf)

Standards and Compliance

| | |
|----------------------------------|--|
| Environmental Suitability: | Indoor/Outdoor - Euroclass Cca |
| Flammability / Reaction to Fire: | IEC 60332-1-2 |
| CPR Compliance: | CPR Euroclass: Cca-s1a,d1,a1; CPR UKCA Class: Cca-s1a,d1,a1 |
| CENELEC Compliance: | EN 50117-1, EN 50290-2-20 |
| European Halogen Free Standards: | IEC 62821-1 Halogen Free Compliance = Yes, IEC 60754-1 - Halogen Amount = Zero, IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 2.5 µS/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3 |
| European Directive Compliance: | EU CE Mark |
| UK Regulation Compliance: | UKCA Mark |

History

Update and Revision: Revision Number: 0.101 Revision Date: 02-28-2025

Part Numbers

Variants

| Item # | Color | Putup Type | Length | EAN |
|---------------|-------|------------|--------|---------------|
| 1855ELW.08500 | Black | Reel | 500 m | 8719605203847 |

| | | | | |
|----------------|--------|------|---------|---------------|
| 1855ELW.17100 | Blue | Reel | 100 m | 8719605203878 |
| 1855ELW.07500 | Blue | Reel | 500 m | 8719605203830 |
| 1855ELW.071000 | Blue | Reel | 1,000 m | 8719605203823 |
| 1855ELW.03500 | Cream | Reel | 500 m | 8719605203786 |
| 1855ELW.10100 | Green | Reel | 100 m | 8719605203861 |
| 1855ELW.00500 | Green | Reel | 500 m | 8719605202574 |
| 1855ELW.001000 | Green | Reel | 1,000 m | 8719605202567 |
| 1855ELW.06500 | Orange | Reel | 500 m | 8719605203816 |
| 1855ELW.05500 | Violet | Reel | 500 m | 8719605203809 |
| 1855ELW.051000 | Violet | Reel | 1,000 m | 8719605203793 |
| 1855ELW.09500 | Yellow | Reel | 500 m | 8719605203854 |

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