



Product: [1694ELV](#)

1694ELV - 75 Ohm SDI Coax, RG-6, 18 AWG, Solid BC, Foil + 95% TC Braid, LSZH Jkt, CPR: B2ca

Product Description

75 Ohm SDI Coax, RG-6, 18 AWG Solid Bare Copper Conductor, PE Insulation, Foil + 95% Tinned Copper Braid Shield, LSZH Jacket, B2ca.

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: | 6 |
|----------|---|

Conductor

| No. of Elements | Size | Stranding | Nom. Diameter | Material |
|-----------------|--------|-----------|---------------|------------------|
| 1 | 18 AWG | Solid | 1.02 mm | BC - Bare Copper |

Insulation

| Element | Material | Nom. Insulation Diameter |
|---------------------|--------------------------|--------------------------|
| Insulated Conductor | PE - Polyethylene (Foam) | 4.57 mm (0.180 in) |

Outer Shield

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

Outer Jacket

| Material | Nom. Diameter |
|---|---------------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 6.96 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 | 0.8 dB/100m |
| 3.6 MHz | 1.5 dB/100m |
| 10 MHz | 2.4 dB/100m |
| 71.5 MHz | 5.6 dB/100m |
| 135 MHz | 7.4 dB/100m |
| 270 MHz | 10.4 dB/100m |
| 360 MHz | 12.1 dB/100m |
| 540 MHz | 14.8 dB/100m |

| | |
|----------|--------------|
| 720 MHz | 17.5 dB/100m |
| 750 MHz | 17.9 dB/100m |
| 1000 MHz | 20.7 dB/100m |
| 1500 MHz | 25.6 dB/100m |
| 2250 MHz | 32.2 dB/100m |
| 3000 MHz | 37.7 dB/100m |
| 4500 MHz | 47.6 dB/100m |
| 6000 MHz | 58.1 dB/100m |

Electricals

| Nom. Conductor DCR | Nom. Outer Shield DCR | Nom. Capacitance Cond-to-Shield | Nom. Characteristic Impedance | Nom. Velocity of Prop. |
|--------------------|-----------------------------|---------------------------------|-------------------------------|------------------------|
| 21 Ohm/km | 9.2 Ohm/km (2.8 Ohm/1000ft) | 53 pF/m (16 pF/ft) | 75 Ohm | 82% |

Mechanical Characteristics

Temperature

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

Bend Radius

| Stationary Min. |
|-----------------|
| 70 mm (2.8 in) |

Max. Pull Tension: 300 N (67 lbf)

Standards and Compliance

| | |
|----------------------------------|--|
| Environmental Suitability: | Indoor/Outdoor - Euroclass B2ca |
| Flammability / Reaction to Fire: | IEC 60332-1-2 |
| CPR Compliance: | CPR Euroclass: B2ca-s1a,d1,a1; CPR UKCA Class: B2ca-s1a,d1,a1 |
| ISO/IEC Compliance: | IEC 61034-2 - Smoke Density Min Transmittance = 80% |
| CENELEC Compliance: | EN 50117-1 |
| 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: 0.102 Revision Date: 02-28-2025

Part Numbers

Variants

| Item # | Color | Putup Type | Length | EAN |
|----------------|--------|------------|---------|---------------|
| 1694ELV.00305 | Black | Reel | 305 m | 8719605205803 |
| 1694ELV.00500 | Black | Reel | 500 m | 8719605205810 |
| 1694ELV.001000 | Black | Reel | 1,000 m | 8719605205797 |
| 1694ELV.01100 | Green | Reel | 100 m | 8719605205827 |
| 1694ELV.01500 | Green | Reel | 500 m | 8719605205841 |
| 1694ELV.011000 | Green | Reel | 1,000 m | 8719605205834 |
| 1694ELV.05500 | Purple | Reel | 500 m | 8719605205865 |
| 1694ELV.051000 | Purple | Reel | 1,000 m | 8719605205858 |

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