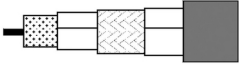


Product: [1694DNH](#) 

COAX RG6/U LSZH-C HDTV PRECISION VIDEO



Product Description

COAX [1.0/4.6] RG6/U LSZH-C HDTV CLASSICS PRO

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Suitable Applications: | Low loss HDTV/SDI Digital coax used in analog and digital video circuits and high quality applications; The outer conductor is designed for high screening attenuation and low transfer impedance; The cable is UV-resistant and suitable for indoor and outdoor use |
|------------------------|--|

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | Nominal Diameter | Diameter +/- Tolerance | No. of Coax |
|-----|-----------|------------------|------------------|------------------------|-------------|
| 18 | Solid | BC - Bare Copper | 1.02 mm | 0.03 mm | 1 |

| | |
|------------------|---|
| Conductor Count: | 1 |
|------------------|---|

Insulation

| Type | Material | Nominal Diameter | Diameter +/- Tolerance |
|------------|--------------------------|------------------|------------------------|
| Dielectric | PE - Polyethylene (Foam) | 4.57 mm | 0.15 mm |

Outer Shield Material

| Type | Layer | Material | Coverage [%] | Min. Overlap | Nominal Diameter | Coverage +/- Tolerance |
|-------|-------|--------------------|--------------|--------------|------------------|------------------------|
| Tape | 1 | Alum / Poly / Alum | | 2 mm | | |
| Braid | 2 | Tinned Copper (TC) | 80% | | 5.6 mm | 5% |
| Tape | 3 | Alum / Poly | | 2 mm | | |

Outer Jacket Material

| Material | Nominal Diameter | Diameter +/- Tolerance |
|---|------------------|------------------------|
| LSZH - Low Smoke Zero Halogen flame retardant | 6.96 mm | 0.2 mm |

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

Construction and Dimensions

| | |
|-----------------------------------|-------|
| Min Elongation at Breakof Jacket: | 125 % |
| Min Tensile Strength of Jacket: | 9 MPa |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 21 Ohm/km | 11 Ohm/km |

Capacitance

| Nom. Capacitance | Capacitance Tolerance |
|------------------|-----------------------|
| 53 pF/m | 2 pF/m |

Impedance

| Nominal Characteristic Impedance | Nominal Characteristic Tolerance |
|----------------------------------|----------------------------------|
| | |

| | |
|--------|-------|
| 75 Ohm | 3 Ohm |
|--------|-------|

High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 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 |

Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] | Velocity of Propagation Tolerance |
|---------------|--|-----------------------------------|
| 407 ns/ft | 84% | 2% |

High Freq

| Frequency [MHz] | Min. RL (Return Loss) [dB] |
|-----------------|----------------------------|
| 5 - 1600 MHz | 23 dB |
| 1600 - 4500 MHz | 21 dB |

Table Notes: In each frequency band, 1 peak value up to 4 dB lower is allowed

Screening

| Frequency [MHz] | Min. Screening Attenuation After Flexing |
|-----------------|--|
| 30 - 1000 MHz | 95 dB |
| 1000 - 2000 MHz | 85 dB |
| 2000 - 3000 MHz | 75 dB |
| 3000 - 4500 MHz | 65 dB |

Screening Class: A+

Transfer Impedance

| Transfer Impedance |
|--------------------|
| Max. 2.5 mOhm/m |

Voltage

| Voltage Test Dielectric |
|-------------------------|
| 2.0 kV DC |

Temperature Range

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

Mechanical Characteristics

| | |
|---|-------|
| Max. Pull Tension: | 300 N |
| Min Bend Radius (W/o Pulling Strength): | 70 mm |

Standards

| | |
|---------------------|--------------|
| CPR Euroclass: | Dca-s2,d1,a1 |
| CENELEC Compliance: | EN 50117-1 |
| RG Type: | 6/U Type |

Applicable Environmental and Other Programs

| | |
|---------------------------------------|------------------------|
| Environmental Space: | Indoor - Euroclass Dca |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2011-12-28 |

Flammability, LSOH, Toxicity Testing

| | |
|--|----------------------------------|
| IEC Flammability: | IEC 60332-1-2 and IEC 60332-3-24 |
| Other Flammability: | CEI 20-22-3 |
| IEC 60754-1 (EN50267-1)- Halogen Amount: | Zero |
| IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Max. Conductivity: | 2.5 µS/mm |
| IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Min. pH: | 4.3 |
| IEC 61034-2 (EN 61034-2) (VDE 0482-1034) - Smoke Density Min. Transmittance: | IEC 61034-2 |

Part Number

Variants

| Item # | Color | Putup Type | Length | EAN |
|---------------|--------|------------|--------|---------------|
| 1694DNH.02500 | Gray | Reel | 500 m | 8719605003843 |
| 1694DNH.01500 | Green | Reel | 500 m | 8719605003836 |
| 1694DNH.00500 | Purple | Reel | 500 m | 8719605003829 |

History

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|----------------------|--|
| Update and Revision: | Revision Number: 0.180 Revision Date: 06-24-2020 |
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