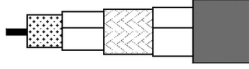




Product: [1855DNH](#)

1855DNH - 75 Ohm SDI Coax, Mini RG-59, 22 AWG Solid BC, Tri-Shield, LSZH-C Jkt



Product Description

75 Ohm SDI Coax, Mini RG-59, 22 AWG Solid Bare Copper Conductor, PE Insulation, Foil + 90% Tinned Copper Braid + Foil Shield, LSZH Jacket, Dca. IEC 60332-3-24.

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Suitable Applications: | Digital Video, 6 Gb/s UHD TV, HD-SDI 1080p; 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 |
|------------------------|--|

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) | 80% |
| 3 | Tape | Bi-Laminate (Alum+Poly) | 100% |

Outer Jacket

| Material | Nom. Diameter |
|---|---------------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 4.45 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

| Max. Transfer Impedance |
|-------------------------|
| Max. 5 mOhm/m |

Screening

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

Screening Class: A

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 Dca |
| Flammability / Reaction to Fire: | IEC 60332-1-2, IEC 60332-3-24, CEI 20-22-3 |
| CPR Compliance: | CPR Euroclass: Dca-s2,d1,a1 |
| 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: 0.285 Revision Date: 02-28-2025

Part Numbers

Variants

| Item # | Color | Putup Type | Length | EAN |
|---------------|--------|------------|--------|---------------|
| 1855DNH.02500 | Gray | Reel | 500 m | 8719605004109 |
| 1855DNH.00500 | Violet | Reel | 500 m | 8719605004086 |

© 2025 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.