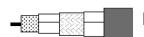


# Product: <u>1855DNH</u>



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 UHDTV, 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
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### **Construction Details**

RG Type:	Mini 59

# Conductor

Number of Element	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	Таре	Tri-Laminate (Alum+Poly+Alum)	100%
2	Braid	Tinned Copper (TC)	80%
3			

#### Outer Jacket

Material		Nom. Diameter
LSZH - Low Smoke Zero Halog	en (Flame Retardant)	4.45 mm
Table Notes:	According to EN 502	90-2-20

### **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

	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:	tal Suitability: Indoor/Outdoor - Euroclass Dca					
Flammability / Reaction to Fire:	Tire: IEC 60332-1-2 and 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					
History						
Update and Revision:	Revision Number: 0.210 Revision Date: 04-08-2022					

## Part Numbers

1855DNH.02500	Gray	Reel	500 m	8719605004109
1855DNH.01500	Green	Reel	500 m	8719605004093
1855DNH.00500	Violet	Reel	500 m	8719605004086

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