

**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 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
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#### 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	Tape	Tri-Laminate (Alum+Poly+Alum)	100%
2	Braid	Tinned Copper (TC)	80%
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#### Outer Jacket

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

Table Notes:	According to EN 50290-2-20
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### 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 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 $\mu$ S/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

#### Variants

Item #	Color	Putup Type	Length	EAN
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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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