



**Product:** [1794DNH](#)



1794DNH - 75 Ohm SDI Coax, Series 7, 16 AWG, Solid BC, Tri-Shield, LSZH-C Jkt

## Product Description

75 Ohm SDI Coax, Series 7, 16 AWG Solid Bare Copper Conductor, PE Insulation, Foil + 95% 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
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### Construction Details

Series Type:	7
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#### Conductor

No. of Elements	Size	Stranding	Nom. Diameter	Material
1	16 AWG	Solid	1.295 mm	BC - Bare Copper

#### Insulation

Element	Material	Nom. Insulation Diameter
Insulated Conductor	PE - Polyethylene (Foam)	5.715 mm (0.2250 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)	8.13 mm

Table Notes:	According to EN 50290-2-20
Overall Cable Diameter (Nominal):	8.13 mm (0.320 in)

### 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	0.56 dB/100m
3.6 MHz	1 dB/100m
10 MHz	1.6 dB/100m

71.5 MHz	4.1 dB/100m
135 MHz	5.6 dB/100m
270 MHz	8 dB/100m
360 MHz	9.3 dB/100m
540 MHz	11.5 dB/100m
720 MHz	13.4 dB/100m
750 MHz	13.7 dB/100m
1000 MHz	16.1 dB/100m
1500 MHz	20.1 dB/100m
2000 MHz	23.6 dB/100m
2250 MHz	25.2 dB/100m
3000 MHz	29.8 dB/100m
4500 MHz	37.8 dB/100m
6000 MHz	45.2 dB/100m

#### Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
13.2 Ohm/km	9.2 Ohm/km (2.8 Ohm/1000ft)	53 pF/m (16 pF/ft)	75 Ohm	84%

#### Transfer Impedance

Max. Transfer Impedance
Max. 2.5 mOhm/m

#### Screening

Frequency	Min. Screening Attenuation
30 - 1000 MHz	95 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: 500 N (110 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,d2,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: 0.231 Revision Date: 04-29-2024

#### Part Numbers

#### Variants

Item #	Color	Putup Type	Length	EAN
1794DNH.04500	Green	Reel	500 m	8719605004079
1794DNH.01500	Purple	Reel	500 m	8719605004062

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