



Product: [70081NH](#)

70081NH - 75 Ohm SDI Coax, RG-59, 20 AWG Solid BC, Foil + 80% TC Braid, LSZH Jkt

Product Description

75 Ohm SDI Coax, RG-59, 20 AWG Solid Bare Copper Conductor, PE Insulation, Foil + 80% Tinned Copper Braid Shield, LSZH Jacket, Dca. IEC 60332-1-2.

Technical Specifications

Product Overview

Suitable Applications:	Digital Video, 6 Gb/s UHDTV, HD-SDI 1080p; The cable is UV-resistant and suitable for indoor and outdoor use
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Construction Details

RG Type:	59
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Conductor

Number of Element	Size	Stranding	Nom. Diameter	Material
1	20 AWG	Solid	0.81 mm	BC - Bare Copper

Insulation

Element	Material	Nom. Insulation Diameter
Insulated Conductor	PE - Polyethylene (Foam)	3.68 mm (0.145 in)

Outer Shield

Layer	Outer Shield Type	Material	Coverage
1	Tape	Tri-Laminate (Alum+Poly+Alum)	100%
2	Braid	Tinned Copper (TC)	80%

Outer Jacket

Material	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	5.92 mm

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 dB/100m
3.6 MHz	2 dB/100m
10 MHz	3 dB/100m
71.5 MHz	6.9 dB/100m
135 MHz	8.9 dB/100m
270 MHz	12.5 dB/100m
360 MHz	14.4 dB/100m
540 MHz	18.1 dB/100m
720 MHz	21 dB/100m
750 MHz	21.3 dB/100m

1000 MHz	24.9 dB/100m
1500 MHz	30.5 dB/100m
2250 MHz	38 dB/100m
3000 MHz	44 dB/100m
4500 MHz	53.8 dB/100m

Table Notes: Max. attenuation 10% higher

Electricals

Max. Conductor DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
32 Ohm/km (9.8 Ohm/1000ft)	53 pF/m (16 pF/ft)	75 Ohm	83%

Mechanical Characteristics

Temperature

Operating	Installation	Storage
-30°C To +70°C	-5°C To +50°C	-30°C To +70°C

Bend Radius

Stationary Min.
60 mm (2.4 in)

Max. Pull Tension: 200 N (45 lbf)

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor - Euroclass Dca
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Dca-s1,d1,a1
ISO/IEC Compliance:	IEC 61034-2 - Smoke Density Min Transmittance = 60%
CENELEC Compliance:	EN 50117-1 and EN 50290-2-20
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
Other Standard Compliance(s):	SDTV/HDTV

History

Update and Revision: Revision Number: 0.217 Revision Date: 04-08-2022

Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
70081NH.10305	Black	Reel	305 m	8719605011251
70081NH.10500	Black	Reel	500 m	8719605011268
70081NH.06305	Blue	Reel	305 m	8719605011237
70081NH.061000	Blue	Reel	1,000 m	8719605011220
70081NH.00100	Green	Reel	100 m	8719605011152
70081NH.00305	Green	Reel	305 m	8719605011169
70081NH.00500	Green	Reel	500 m	8719605011176
70081NH.03305	Orange	Reel	305 m	8719605011206
70081NH.01500	Purple	Reel	500 m	8719605011183
70081NH.02305	Red	Reel	305 m	8719605011190
70081NH.09305	White	Reel	305 m	8719605011244
70081NH.04305	Yellow	Reel	305 m	8719605011213

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