

Product: 70084NH

70084NH - 75 Ohm SDI Coax, RG-11, 14 AWG Solid BC, Foil + 80% TC Braid, LSZH Jkt

Product Description

75 Ohm SDI Coax, RG-11, 14 AWG Solid Bare Copper Conductor, PE Insulation, Foil + 80% Tinned Copper Braid Shield, LSZH Jacket, Eca. 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

Construction Details

RG Type:	11

Conductor

No. of Elements	Size	Stranding	Nom. Diameter	Material
1	14 AWG	Solid	1.63 mm	BC - Bare Copper

Insulation

Element	Material	Nom. Insulation Diameter
Insulated Conductor	PE - Polyethylene (Foam)	7.11 mm (0.280 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)	10.2 mm

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	0.5 dB/100m
10 MHz	1.5 dB/100m
71.5 MHz	3.6 dB/100m
135 MHz	4.8 dB/100m
270 MHz	6.9 dB/100m
360 MHz	8 dB/100m
540 MHz	10 dB/100m
720 MHz	11.7 dB/100m

750 MHz	12 dB/100m
1000 MHz	14.1 dB/100m
1500 MHz	18 dB/100m
2250 MHz	22.6 dB/100m
3000 MHz	26.9 dB/100m
4500 MHz	34.1 dB/100m
6000 MHz	37.8 dB/100m

Table Notes:	Max. attenuation 10% higher

Electricals

Max. Conductor DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
8.2 Ohm/km (2.5 Ohm/1000ft)	53 pF/m (16 pF/ft)	75 Ohm	84%

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.
100 mm (3.9 in)

Max. Pull Tension:	650 N (150 lbf)

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor - Euroclass Eca
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
ISO/IEC Compliance:	IEC 61034-2 - Smoke Density Min Transmittance = 60%
CENELEC Compliance:	EN 50117-1, 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
UK Regulation Compliance:	UKCA Mark
Other Standard Compliance(s):	SDTV/HDTV

History

Update and Revision:	Revision Number: 0.293 Revision Date: 02-28-2025

Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
70084NH.00500	Green	Reel	500 m	8719605011596
70084NH.001000	Green	Reel	1,000 m	8719605011589

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