



**Product:** [70082NH](#)

70082NH - 75 Ohm SDI Coax, RG-6, 18 AWG, Solid BC, Foil + 80% TC Braid, LSZH Jkt

## Product Description

75 Ohm SDI Coax, RG-6, 18 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:	6
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#### Conductor

Number of Element	Size	Stranding	Nom. Diameter	Material
1	18 AWG	Solid	1.02 mm	BC - Bare Copper

#### Insulation

Element	Material	Nom. Insulation Diameter
Insulated Conductor	PE - Polyethylene (Foam)	4.57 mm (0.180 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)	6.96 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	0.8 dB/100m
10 MHz	2.4 dB/100m
71.5 MHz	5.6 dB/100m
135 MHz	7.4 dB/100m
270 MHz	10.4 dB/100m
360 MHz	12.1 dB/100m
540 MHz	15 dB/100m
720 MHz	17.5 dB/100m
750 MHz	17.9 dB/100m
1000 MHz	21 dB/100m

1500 MHz	26 dB/100m
2250 MHz	32 dB/100m
3000 MHz	38 dB/100m
4500 MHz	48 dB/100m

Table Notes:	Max. attenuation 10% higher
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#### Electricals

Max. Conductor DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
21 Ohm/km (6.4 Ohm/1000ft)	53 pF/m (16 pF/ft)	75 Ohm	82%

#### 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.
70 mm (2.8 in)

Max. Pull Tension:	300 N (67 lbf)
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#### Standards and Compliance

Environmental Suitability:	Indoor/Outdoor - Euroclass Dca
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Dca-s2,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
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#### Part Numbers

##### Variants

Item #	Color	Putup Type	Length	EAN
70082NH.10500	Black	Reel	500 m	8719605011404
70082NH.00100	Green	Reel	100 m	8719605011367
70082NH.00500	Green	Reel	500 m	8719605011381
70082NH.001000	Green	Reel	1,000 m	8719605011374
70082NH.01500	Purple	Reel	500 m	8719605011398

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