



Product: [70082](#)

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

Product Description

75 Ohm SDI Coax, RG-6, 18 AWG Solid Bare Copper Conductor, PE Insulation, Foil + 80% Tinned Copper Braid Shield, PVC Jacket.

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

No. of Elements	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
PVC - Polyvinyl Chloride	6.96 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	0.8 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
6000 MHz	58 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 Eca
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
CENELEC Compliance:	EN 50117-1EN 50290-2-20
European Directive Compliance:	EU CE Mark
UK Regulation Compliance:	UKCA Mark
Other Standard Compliance(s):	SDTV/HDTV

History

Update and Revision:	Revision Number: 0.207 Revision Date: 07-03-2023
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Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
70082.00100	Black	Reel	100 m	8719605011275
70082.00500	Black	Reel	500 m	8719605011282
70082.021000	Green	Reel	1,000 m	8719605145239
70082.04500	Orange	Reel	500 m	8719605011299

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