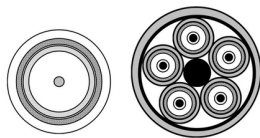


Product: [1505EN5](#) 



75 Ohm SDI 5 Coax, RG-59, 20 AWG Solid BC, Foil + 95% TC Braid, LSZH Jkt

Product Description

75 Ohm SDI 5 Coax, RG-59, 20 AWG Solid Bare Copper Conductor, PE Insulation, Foil + 95% Tinned Copper Braid Shield, LSZH inner and outer Jackets.

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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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	Diameter +/- Tolerance	No. of Coax
20	Solid	BC - Bare Copper	0.81 mm	0.03 mm	5

Conductor Count:	5
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Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Dielectric	PE - Polyethylene (Foam)	3.68 mm	0.15 mm

Table Notes:	Gas Injected
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Inner Shield

Element	Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Coverage +/- Tolerance
	Tape	1	Tri-Laminate (Alum+Poly+Alum)		2 mm		
Braid		2	Tinned Copper (TC)	95%		4.4 mm	5%

Inner Jacket

Material	Nominal Diameter	Diameter +/- Tolerance
LSZH - Low Smoke Zero Halogen (Flame Retardant)	5.92 mm	0.2 mm

Outer Jacket

Material	Nominal Diameter	Diameter +/- Tolerance
LSZH - Low Smoke Zero Halogen (Flame Retardant)	18.8 mm	0.4 mm

Construction and Dimensions

Cabling

Description	Filler
5 coax + Central filler + a non-woven foil	yes

Electrical Characteristics

Conductor DCR

Inner Conductor DCR	Outer Conductor DCR
32 Ohm/km	12 Ohm/km

Capacitance

Nom. Capacitance	Capacitance Tolerance

53 pF/m	2 pF/m
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Min Insulation Resistance:	10000 MOhm*km
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Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance
75 Ohm	3 Ohm

Return Loss (RL)

Frequency [MHz]	Minimum Return (RL)
5-1600 MHz	23 dB
1600-4500 MHz	21 dB

Table Notes:	Max. 3 peak values 3 dB lower than specified
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Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]	Velocity of Propagation Tolerance
400 ns/100m	83%	2%

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)
1 MHz	1.0 dB/100m
3.6 MHz	2.0 dB/100m
10 MHz	3.0 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

Voltage

Voltage Test Dielectric
2.0 kV DC

Temperature Range

Installation Temp Rating:	-5 °C
Installation Temperature Range:	-5°C To +50°C
Storage Temperature Range:	-30°C To +70°C

Mechanical Characteristics

Max. Pull Tension:	200 N
Min Bend Radius (W/o Pulling Strength):	190 mm

Standards

CPR Euroclass:	Eca
CENELEC Compliance:	EN 50117-1
RG Type:	59

Applicable Environmental and Other Programs

Environmental Space:	Indoor/Outdoor - Euroclass Eca
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Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-1-2 and IEC 60332-3-24
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

IEC 61034-2 - Smoke Density Min. Transmittance:	60%
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Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	EAN
1505EN5.00150	Black	Reel	150 m	8719605001573

History

Update and Revision:	Revision Number: 0.153 Revision Date: 04-08-2022
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