



Product: [1505ANH](#) 

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

Product Description

75 Ohm SDI Coax, RG-59, 20 AWG Solid Bare Copper Conductor, PE Insulation, Foil + 95% Tinned Copper Braid Shield, LSZH Jacket, Dca. IEC 60332-3-24.

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	1

Conductor Count:	1
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Insulation

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

Outer Shield Material

Type	Layer	Material	Coverage [%]	Min. Overlap	Nominal Diameter	Coverage +/- Tolerance
Tape	1	Tri-Laminate (Alum+Poly+Alum)	100%	2 mm		
Braid	2	Tinned Copper (TC)	95%		4.4 mm	5%

Outer Jacket Material

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

Table Notes:	According to European Standard EN 50290-2-20
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Construction and Dimensions

Min Elongation at Breakof Jacket:	125 %
Min Tensile Strength of Jacket:	9 MPa

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
32 Ohm/km	12 Ohm/km

Capacitance

Nom. Capacitance	Capacitance Tolerance
53 pF/m	2 pF/m

Min Insulation Resistance:	10000 MOhm*km
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Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance
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75 Ohm	3 Ohm
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Return Loss (RL)

Frequency [MHz]	Minimum Return (RL)
5 - 1600 MHz	23 dB
1600 - 4500 MHz	21 dB
4500 - 6000 MHz	15 dB

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
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	21.0 dB/100m
750 MHz	21.3 dB/100m
1000 MHz	24.9 dB/100m
1500 MHz	31.2 dB/100m
2250 MHz	39.0 dB/100m
3000 MHz	45.9 dB/100m
4500 MHz	57.4 dB/100m
6000 MHz	69.2 dB/100m

Delay

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

Voltage

Voltage Test Dielectric
2.0 kV DC

Temperature Range

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

Mechanical Characteristics

Max. Pull Tension:	200 N
Min Bend Radius (W/o Pulling Strength):	60 mm

Standards

CPR Euroclass:	Cca-s1a,d1,a1
CENELEC Compliance:	EN 50117-1
RG Type:	59

Applicable Environmental and Other Programs

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

IEC Flammability:	IEC 60332-1-2 and IEC 60332-3-24
Other Flammability:	CEI 20-22-3
LOI of Jacket:	Min. 35 %
IEC 60754-1 (EN50267-1)- 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 (EN 61034-2) (VDE 0482-1034) - Smoke Density Min. Transmittance:	80%

Part Number

Variants

Item #	Color	Put-Up Type	Length	EAN
1505ANH.00100	Black	Reel	100 m	8719605001344
1505ANH.00305	Black	Reel	305 m	8719605001368
1505ANH.00500	Black	Reel	500 m	8719605001375
1505ANH.001000	Black	Reel	1,000 m	8719605001351
1505ANH.04500	Blue	Reel	500 m	8719605001498
1505ANH.041000	Blue	Reel	1,000 m	8719605001481
1505ANH.02100	Green	Reel	100 m	8719605001429
1505ANH.02305	Green	Reel	305 m	8719605001443
1505ANH.02500	Green	Reel	500 m	8719605001450
1505ANH.021000	Green	Reel	1,000 m	8719605001436
1505ANH.01100	Purple	Reel	100 m	
1505ANH.01305	Purple	Reel	305 m	8719605001405
1505ANH.01500	Purple	Reel	500 m	8719605001412
1505ANH.011000	Purple	Reel	1,000 m	8719605001382
1505ANH.011220	Purple	Reel	1,220 m	8719605001399
1505ANH.051000	Red	Reel	1,000 m	8719605001504
1505ANH.03305	Yellow	Reel	305 m	8719605001474
1505ANH.031000	Yellow	Reel	1,000 m	8719605001467

History

Update and Revision:	Revision Number: 0.212 Revision Date: 08-27-2021
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