



Product: <u>1855EN3</u> ☑

75 Ohm SDI 3 Coax, Mini RG-59, 22 AWG Solid BC, Foil + 90% TC Braid, LSZH Jkt

Product Description

75 Ohm SDI 3 Coax, Mini RG-59, 22 AWG Solid Bare Copper Conductor, PE Insulation, Foil + 90% Tinned Copper Braid Shield, LSZH Jacket.

Technical Specifications

Product Overview

Suitab	le Appli	cations:	Digital Vid	eo, 6 Gb/s UHDT\	/, HD-SDI 1080	p; Cable is UV-	resistant and suitable for indoor and outdoor ι
Physi	ical C	haracteristics (O	verall)				
Conduc	ctor						
AWG	Strand	ding Material	Nominal Dia	ameter Diameter	+/- Tolerance	No. of Coax	
22	Solid	BC - Bare Copper	0.65 mm	0.02 mm		3	
Condu	ictor Co	unt:	3				
Insulati	ion						
Туре		Material	Nominal Dia	meter Diameter	+/- Tolerance		
		- Polyethylene (Foam)		0.15 mm			
2	Gre						
3	Blu	e					
nner S	hield						
Туре	Layer	Material	Co	verage [%]			
Таре	1	Tri-Laminate (Alum+Po	ly+Alum) 100	0%			
Braid	2	Tinned Copper (TC)	959	6			
Inner J	acket						
		Material		Nominal Diame	ter Diameter	+/- Tolerance	
LSZH	- Low S	moke Zero Halogen (Fla	me Retardant) 4.45 mm	0.2 mm		
Table	Notes:		Matte Fini	sh			

Table Notes:	Matte Finish	
Outer Jacket		

Material	Nominal Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	12.1 mm

Construction and Dimensions

cability	
Description	Filler
3 coax bundled around a filler covered with nonwoven foil	Filler (1x)

Electrical Characteristics

Conductor DCR

Max. Conductor DCR	Max. Shield DCR
55 Ohm/km	17 Ohm/km

Capacitance

Nom. Capacitance Conductor to Shield 53 pF/m

Inductance

Nominal Inductance 0.35 µH/m

Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance
75 Ohm	3 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	1.7 dB/100m
3.6 MHz	2.5 dB/100m
5 MHz	2.8 dB/100m
6 MHz	3 dB/100m
7 MHz	3.2 dB/100m
10 MHz	3.7 dB/100m
12 MHz	4 dB/100m
25 MHz	5.4 dB/100m
67.5 MHz	8.3 dB/100m
71.5 MHz	8.6 dB/100m
88.5 MHz	9.5 dB/100m
100 MHz	10 dB/100m
135 MHz	11.5 dB/100m
143 MHz	11.9 dB/100m
180 MHz	13.2 dB/100m
270 MHz	16.1 dB/100m
360 MHz	18.6 dB/100m
540 MHz	22.8 dB/100m
720 MHz	26.4 dB/100m
750 MHz	26.9 dB/100m
1000 MHz	31.3 dB/100m
1500 MHz	38.7 dB/100m
2000 MHz	45 dB/100m
2250 MHz	48 dB/100m
2500 MHz	50.8 dB/100m
3000 MHz	56.1 dB/100m
4000 MHz	65.7 dB/100m
4500 MHz	70.2 dB/100m

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
400 ns/ft	84%

High Frequency

Frequency [MHz]	Min. RL (Return Loss) [dB]
5 - 1600 MHz	23 dB
1600 - 4500 MHz	21 dB

Screening

Frequency [MHz]	Min. Screening Attenuation After Flexing
30 - 1000 MHz	85 dB
1000 - 2000 MHz	85 dB
2000 - 3000 MHz	85 dB
3000 - 4500 MHz	80 dB

Screening Class:		В
ransfer Impedance		
Frequency [MHz]	Transfer Impedance	
5-30 MHz	Max. 15 mOhm/m	
Temperature R	ange	
Installation Tempera	iture Range:	-5°C To +50°C
Storage Temperatur	e Range:	-30°C To +70°C
Operating Temperat	ure Range:	-30°C To +70°C
Mechanical Ch Min Bend Radius (W	aracteristics	120 mm
Crush Resistance:	0 0 ,	Max. 1% (load of 700N) N
Standards		
CPR Euroclass:		Eca
RG Type:		Mini 59
Applicable Env	rironmental and	I Other Programs
Environmental Spac	e:	Indoor
Flammability, L	S0H, Toxicity	Festing
Elammability, L	S0H, Toxicity	Testing IEC 60332-1-2

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	EAN
1855EN3.00250	Black	Reel	250 m	8719605128478
1855EN3.00500	Black	Reel	500 m	8719605124722

History

Update and Revision:	Revision Number: 0.210 Revision Date: 02-03-2025

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