

Product: <u>3107ELV</u> ⊠ RS-485, 2PR #22 Str TC, PO ins, F/B, LSNH Jkt, B2ca

Product Description

RS-485, 2 Pair AWG 22 Tinned Copper - Stranded, Polyolefin (PO, PE, PP) insulation, Foil + Braid(s) shielding, LSZH / FRNC jacket , CPR B2ca

Technical Specifications

Product Overview

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Suitable Applications:				tation and computer cable. For EIA RS-485 transmissions applications	
Physi	Physical Characteristics (Overall)				
Conduc	Conductor				
AWG	Stranding	Material No. o	f Pairs		
22	7x30 TC -	Tinned Copper 2			
Conduc	ctor Count:		4		
Insulati	on				
	Material	Nominal Diameter	Diameter +/- Tolerance		
PE - Po	olyethylene (Foam) 2.04 mm	0.05 mm		
Color C	hart		·	a	
Numbe					
wire 1	White & Orang				
wire 2	Orange & Whit	_			

Outer Shield

wire 3

wire 4

Туре	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Таре	1	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	22
Braid	2	Tinned Copper (TC)		65%		

Outer Jacket

Material	Color	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	Black	8.9 mm	1.35 mm

Construction and Dimensions

White & Blue

Blue & White

Cabling

Description
2 pairs + tinned copper drainwire (AWG22)

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
48.2 Ohm/km	5.9 Ohm/km

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
36.1 pF/m	68.6 pF/m

Impedance

Frequency [MHz]	Nominal Characteristic Impedan
1	120 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	1.64 dB/100m

Delay

Nominal Velocity of Propagation (VP) [%] 78%

Current

Max. Recommended Current [A] 2.7 Amps per Conductor

Voltage

Voltage Rating [V] 300 V

Temperature Range

Installation Temperature Range:	-15°C To +80°C
Storage Temperature Range:	-45°C To +80°C
Operating Temperature Range:	-15°C To +80°C
Operating Temp Range (Fixed Install):	-45°C To +80°C

Mechanical Characteristics

Oil Resistance:	IEC 60811-404
Max. Pull Tension:	290 N
Min Bend Radius (W/o Pulling Strength):	89 mm
Min. Bend Radius During Installation:	89 mm

Standards

CPR Euroclass:	B2ca-s1,d1,a1
CENELEC Compliance:	EN 50290-2-27

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass B2ca
EU CE Mark:	Yes

Suitability

Suitability - Non-Halogenated:	Yes

Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-1-2
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%

Related Part Numbers

Variants						
ltem #	Color	Put-Up Type	Length	EAN		
3107ELV.00500	Black	Reel	500 m	8719605192301		

History

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