



Product: 717I1ELZ

Life Cycle Status: Capability

RS-485, 2 Pr 0.5mm2 Str TC, PO ins, F/B, LSNH Jkt

Product Description

RS-485, 2 Pair 0.5mm2 Tinned Copper - Stranded, Foamed PE insulation, Foil + Braid(s) shielding, LSZH / FRNC jacket

Technical Specifications

Product Overview

Suitable Applications: RS-485, POS; Computer communications; Low Voltage Analog Signals (4-20ma, 0-10v, ...); Low Voltage Digital Control (24v, ...); Line Level Audio; Panel Wiring; serial communication (RS-485 standard) comprising of PLCs, VFDs, HMIs, motors, RTU, SCADA, etc. within noisy environments over long distance, etc.

Construction Details

Conductor

Stranding	Material
7x32	TC - Tinned Copper

Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene (Foam)	2.60 mm (0.102 in)	White/Blue & Blue/White, White/Orange & Orange/White

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Таре	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC
Braid	Tinned Copper (TC)	50%	

Outer Jacket

N	laterial	Nom. Thickness	Nom. Diameter
LSZH - Low Smoke Zer	ro Halogen (Flame Retardant)	0.9 mm (0.035 in)	10.4 mm (0.409 in)
Overall Cable Diameter (Nominal):	10.4 mm (0.409 in)		

Electrical Characteristics

Electricals

Nom. Cond	uctor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedence	Nom. Velocity of Prop.
36 Ohm/km (1	1 Ohm/1000ft)	36.1 pF/m (11.0 pF/ft)	68.6 pF/m	120 Ohm	78%

High Frequency (Nominal/Typical)

Freq 1	quency [MHz	1				
Volta	ge					
Volt	age Rating					
300	V					
Mec	hanical C	Characteristi	cs			
Temp	perature					
0	perating	Installation	Storage			

Bend Radius

Stationary Min.Installation Min.52 mm (2.0 in)104 mm (4.09 in)

Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Eca, Non-Halogenated				
Flammability / Reaction to Fire:	IEC 60332-1-2				
CPR Compliance:	CPR Euroclass: Eca; CPR UKCA Class: Eca				
ISO/IEC Compliance:	IEC 61034-2 - Smoke Density Min Transmittance = 60%				
CENELEC Compliance:	EN 50290-2-20				
European Halogen Free Standards:	IEC 62821-1 Halogen Free Compliance = Yes, 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				
European Directive Compliance:	EU CE Mark				
UK Regulation Compliance:	UKCA Mark				
Other Standard Compliance(s):	DMX-512				

Product Notes

This is a preliminary Technical Design Specification (TDS). The minimum business quantity to offer is 3km for the first order. This product will have Gray as standard color and 305mt as standard put-ups. Additional options for colors and put-ups are available on special request. The estimated production lead time for the first order will be similar to the production lead time of 3107ENH. Please liaise with your Belden representative for confirmation.

History

Update and Revision: Revision Number: 0.6 Revision Date: 01-07-2025

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