

Product: <u>50011L</u> ☑ RS485, 1P 24AWG Str TC, XLPE Ins, OS+TC Brd, LSZH Jkt, ABS Approved

Product Description

RS-485, 1PR x 24AWG Stranded Tinned Copper, Foamed Electron-Beam Cross Linked Polyethylene Insulation, Overall Foil Plus Tinned Copper Braid Shield, Low Smoke Zero Halogen Jacket, ABS Approved

Technical Specifications

Product Overview

Suitable Applications:	Designed for applications which are used for RS 232/422/485, CANBUS, MODBUS communication protocols. Cable applications include motion oriented machine, machine control networks, temperature controllers, control panels, machine cutting tools, auxiliary equipment, SCADA communications, etc. These cables are used in emergency evacuation / shutdown systems in building automation, offshore, oil & gas and railway applications and are flame retardant according to IEC 60332-3-22 Category A
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Construction Details

Conductor	
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Size	Stranding	Material	
24 AWG	Stranded	TC - Tinned Copper	

Insulation

Material Color Code
EB-XLFMPE White & Blue

Outer Shield

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

Outer Jacket

Material	
LSZH - Low Smoke Ze	ero Halogen (Flame Retardant)
Overall Cable Diameter (Nominal):	6.8 mm (0.27 in)

Electrical Characteristics

Electricals						
Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedence	Max. Current		
94.2 Ohm/km (28.7 Ohm/1000f) 46 pF/m (14 pF/ft)	F/m (14 pF/ft) 82 pF/m 120 Ohm 2.1 Amps per conductor at 25°C				
Table Notes: Nom. Inductance to Resistance ratio (L/R): 25 μH/Ω						

Voltage

 Voltage Rating
 Breakdown Voltage

 300 V
 1.5 kVac / 2s

Mechanical Characteristics

Temperature



 Table Notes:
 Insulation Resistance ≥ 1 GΩ*KM

 Bulk Cable Weight:
 62 kg/km (42 lbs/1000ft)

Standards and Compliance

Environmental Suitability:	Sunlight Resistance, UV Resistance, Oil Resistance, Oil Resistance			
Flammability / Reaction to Fire:	IEC 60332-1-2, IEC 60332-3-22			
Marine Compliance:	ABS Type Approval Certificate 20-2029059-PDA			
ISO/IEC Compliance:	: IEC 60092-376, IEC 61034-2 - Smoke Density Min Transmittance = Min. 70% as per IEC 61034-2			
European Halogen Free Standards:				
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2)			
APAC Compliance:	China RoHS II (GB/T 26572-2011)			
Other Standard Compliance(s):	Toxicity Index 5 as per EN 50305 / NF F63-305 (ITC)			

FIGURE NOTES

	Notes:	Smoke Density ASTM D2843 Max. 40%
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History

Update and Revision: Revision Number: 0.59 Revision Date: 07-05-2024

Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
50011L-D305	Black	Reel	305 m	8719605219718
50011L 010500M	Black	Reel	500 m	
50011L 0101000M	Black	Reel	1,000 m	
50011L 060500M	Grey	Reel	500 m	
50011L 0601000M	Grey	Reel	1,000 m	

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