

Product: <u>50012L</u> ☑ RS485, 2P 24AWG Str TC, XLPE Ins, OS+TC Brd, LSZH Jkt, ABS Approved

Product Description

RS-485, 2PR 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

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

Construction Details

Conductor	
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Size	Stranding	Material		
24 AWG	Stranded	TC - Tinned Copper		

Insulation

Material	Color Code		
EB-XLFMPE	White & Blue, White & Orange		

Outer Shield

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

Outer Jacket

1	Material	
LSZH - Low Smoke Ze	ero Halogen (Flame Retardant)	
Overall Cable Diameter (Nominal):	Overall Cable Diameter (Nominal): 8.9 mm (0.35 in)	

Electrical Characteristics

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

Voltage

Voltage RatingBreakdown Voltage300 V1.5 kVac / 2s

Mechanical Characteristics

Temperature



 Table Notes:
 Insulation Resistance ≥ 1 GΩ*KM

 Bulk Cable Weight:
 88 kg/km (59 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:	IEC 60754-1 - Halogen Amount = Max 0.5%, IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 10 µS/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3					
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)					

Notes:	Smoke Density ASTM D2843 Max. 40%

History

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

Part Numbers

Variants

ltem #	Color	Putup Type	Length	EAN
50012L-A305	Black	Reel	305 m	8719605207814
50012L 010500M	Black	Reel	500 m	
50012L 0101000M	Black	Reel	1,000 m	
50012L-A300	Chrome	Reel	300 m	8719605219763
50012L-D305	Chrome	Reel	305 m	8719605219770
50012L 060500M	Grey	Reel	500 m	
50012L 0601000M	Grey	Reel	1,000 m	

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