



Product: <u>50091L</u> ☑

RS485, 1P 22AWG Str TC, XLPE Ins, OS+TC Brd, LSZH Jkt, ABS Approved

Product Description

RS-485, 1PR x 22AWG 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
Suitable Applications:	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

Construction Details

Conductor

Size	Stranding	Material		
22 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

Electrical Characteristics

Electricals

Nom. Conductor DCR		Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedence	Max. Current
59.4 Ohm/km (18.1 Ohm	n/1000ft)	46 pF/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			ιΗ/Ω		

Voltage

Voltage Rating	Breakdown Voltage	
300 V	1.5 kVac / 2s	

Mechanical Characteristics

Temperature

Operating
-40°C To +90°C

Bulk Cable Weight: 60.0 kg/km (40.3 lbs/1000ft)

Standards and Compliance

Environmental Suitability:	Sunlight Resistance, UV 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)

Product Notes

Notes:	Smoke Density ASTM D2843 Max. 40%	
140100.	Official Deficitly 7 to 1111 D2040 Max. 4070	

History

Update and Revisi	on: Revision Number: 0.53 Revision Date: 02-15-2024

Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
50091L-J100	Black	Reel	100 m	8719605220141
50091L 010500M	Black	Reel	500 m	
50091L 0101000M	Black	Reel	1,000 m	
50091L 060500M	Grey	Reel	500 m	
50091L 0601000M	Grey	Reel	1,000 m	

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