



Product: [50011LB](#)

RS485, 1P 24AWG Str TC, XLPE Ins, OS+TC Brd, LSZH Inner Jkt, SWB, LSZH Outer 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 Inner Jacket, Steel Wire Braid Armor, Low Smoke Zero Halogen Outer 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

Size	Stranding	Material
24 AWG	Stranded	TC - Tinned Copper

Insulation

Material	Color Code
EB-XLFMPE	White & Blue

Outer Shield

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

Inner Jacket

Material
LSZH - Low Smoke Zero Halogen (Flame Retardant)

Armor

Armor Type & Material
SWB - Steel Wire Braid Armor

Outer Jacket

Material
LSZH - Low Smoke Zero Halogen (Flame Retardant)

Overall Cable Diameter (Nominal):	8.9 mm (0.35 in)
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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/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 µH/Ω
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Voltage

Voltage Rating	Breakdown Voltage
300 V	1.5 kVac / 2s

Mechanical Characteristics

Temperature

Operating
-40°C To +90°C

Table Notes:	Insulation Resistance $\geq 1 \text{ G}\Omega \cdot \text{KM}$
Bulk Cable Weight:	122 kg/km (82.0 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 $\mu\text{S}/\text{mm}$, 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%
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History

Update and Revision:	Revision Number: 0.63 Revision Date: 07-05-2024
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Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
50011LB-A305	Black	Reel	305 m	8719605219732
50011LB 010500M	Black	Reel	500 m	
50011LB 0101000M	Black	Reel	1,000 m	
50011LB-A1000	Chrome	Reel	1,000 m	8719605219725
50011LB 060500M	Grey	Reel	500 m	
50011LB 0601000M	Grey	Reel	1,000 m	

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