



Product: <u>50091LS</u> ☑

RS485, 1P 22AWG Str TC, XLPE Ins, OS+TC Brd, LSZH Inner Jkt, SWA, LSZH Outer 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 Inner Jacket, Steel Wire 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

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	

Inner Jacket

Material
LSZH - Low Smoke Zero Halogen (Flame Retardant)

Armor

Armor Type & Material
SWA - Steel Wire Armor

Outer Jacket

Material				
LSZH - Low Smoke Zero Halogen (Flame Retardant)				

Diameter (Nominal):

10.0 mm (0.394 in)

Electrical Characteristics

Electricals

Nom. Conductor DCR Nom. Capacitanc		Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedence	Max. Current
59.4 Ohm/km (18.1 Oh	nm/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					

Voltage Rating	Breakdown Voltage		
300 V	1.5 kVac / 2s		

Mechanical Characteristics

Temperature

Operating			
-40°C To +90°C			

Bulk Cable Weight: 203.6 kg/km (136.8 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)
Compilance.	
APAC Compliance:	China RoHS II (GB/T 26572-2011)

Product Notes

Notes: Smoke Density ASTM D2843 Max. 40%

History

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

Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
50091LS-A305	Black	Reel	305 m	8719605220196
50091LS-A476	Black	Reel	476 m	8719605220202
50091LS 010500M	Black	Reel	500 m	
50091LS-A500	Black	Reel	500 m	8719605220219
50091LS-A692	Black	Reel	692 m	8719605220226
50091LS-A724	Black	Reel	724 m	8719605220233
50091LS 0101000M	Black	Reel	1,000 m	
50091LS-A100	GRAY	Reel	100 m	8719605220189
50091LS-J810	GRAY	Reel	810 m	8719605220158
50091LS-J830	GRAY	Reel	830 m	8719605220165
50091LS-J850	GRAY	Reel	850 m	8719605220172
50091LS 060500M	Grey	Reel	500 m	
50091LS 0601000M	Grey	Reel	1,000 m	

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