



**Product:** <u>50064LS</u> □

RS485, 4P 20AWG Str TC, XLPE Ins, OS+TC Brd, LSZH Inner Jkt, SWA, LSZH Outer Jkt, ABS Approved

# **Product Description**

RS-485, 4PR x 20AWG 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		
20 AWG	Stranded	TC - Tinned Copper		

# Insulation

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

### **Outer Shield**

Shield Type	Material	Drainwire Type	
Таре	Bi-Laminate (Alum+Poly)		
Braid	Tinned Copper (TC)	22 AWG (7x30) 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)				
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Diameter (Nominal):

16.4 mm (0.646 in)

## **Electrical Characteristics**

## Electricals

Nom. Conductor DCR 36.7 Ohm/km (11.2 Ohm/1000ft)		Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedence	Max. Current  2.1 Amps per conductor at 25°C	
		46 pF/m (14 pF/ft)	82 pF/m	120 Ohm		
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: 436.4 kg/km (293.2 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:	3S Type Approval Certificate 20-2029059-PDA		
ISO/IEC Compliance:	EC 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%
NOICS.	Office Defisity ASTW D2043 Wax. 4070

## History

Update and Revision:	Revision Number: 0.62 Revision Date: 07-05-2024

#### **Part Numbers**

#### Variants

Item #	Color	Putup Type	Length	EAN
50064LS-A010	Black	Reel	10 m	8719605220028
50064LS 010500M	Black	Reel	500 m	
50064LS 0101000M	Black	Reel	1,000 m	
50064LS 060500M	Grey	Reel	500 m	
50064LS 0601000M	Grey	Reel	1,000 m	

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