



Product: [50071LS](#)

RS485, 1P 18AWG Str TC, XLPE Ins, OS+TC Brd, LSZH Inner Jkt, SWA, LSZH Outer Jkt, ABS Approved

Product Description

RS-485, 1PR 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 |
|--------|-----------|--------------------|
| 18 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) | 21 AWG (7x29) 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) |

| | |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 12.3 mm (0.484 in) |
|-----------------------------------|--------------------|

Electrical Characteristics

Electricals

| Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Shield | Nom. Characteristic Impedence | Max. Current |
|-------------------------------|-------------------------------|---------------------------------|-------------------------------|--------------------------------|
| 23.2 Ohm/km (7.07 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 |
|--------------|--|

Voltage

| Voltage Rating | Breakdown Voltage |
|----------------|-------------------|
| 300 V | 1.5 kVac / 2s |

Mechanical Characteristics

Temperature

| Operating |
|----------------|
| -40°C To +90°C |

Bulk Cable Weight: 285.6 kg/km (191.9 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) |

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 |
|------------------|--------|------------|---------|---------------|
| 50071LS 010500M | Black | Reel | 500 m | |
| 50071LS 0101000M | Black | Reel | 1,000 m | |
| 50071LS-A500 | Chrome | Reel | 500 m | 8719605220073 |
| 50071LS 060500M | Grey | Reel | 500 m | |
| 50071LS 0601000M | Grey | Reel | 1,000 m | |

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