



Product: [5020UME](#)

Safe-T-Line, 2 C #12 Sol BC, Silicone Ins, LSZH Jkt, FPLR, CWZ, PH120

Product Description

Safe-T-Line TW Pair x AWG12 (Solid SBC) Fire resistant Multi-conductor, BS 6387 CWZ, EN 50200 PH120, EN60331-2 , Unshielded, Ceramifiable Silicone insulation, Low Smoke Zero Halogen Jacket

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Suitable Applications: | Fire Resistant Applications With Industrial Control, Raceways Cable trays and ducts, Digital Control, Instruments (4-20ma, 0-10v, ...),low voltage digital control (24v, ...), encoders, control circuits, distributed control system (DCS),programmable logic controller (PLC), Solenoids, Valves, Actuators, Positioners |
|------------------------|--|

Construction Details

Conductor

| Element | Size | Stranding | Material |
|---------|--------|-----------|------------------|
| Pair(s) | 12 AWG | Solid | BC - Bare Copper |

Insulation

| Element | Material | Nom. Thickness | Nom. Insulation Diameter | Color Code |
|---------|-----------------|--------------------|--------------------------|------------|
| Pair(s) | Silicone Rubber | 0.034 in (0.86 mm) | 0.151 in (3.84 mm) | Black, Red |

Outer Jacket

| Material | Nom. Thickness | Nom. Diameter |
|-----------------|-------------------|--------------------|
| PO - Polyolefin | 0.045 in (1.1 mm) | 0.392 in (9.96 mm) |

| | |
|--------------|---|
| Table Notes: | Highly Flame Retardant Non-Halogenated Polyolefin |
|--------------|---|

Electrical Characteristics

Electricals

| Nom. Conductor DCR | Max. Current |
|-------------------------------|-------------------------------|
| 1.65 Ohm/1000ft (5.41 Ohm/km) | 30 Amps per Conductor at 30°C |

Voltage

| UL Voltage Rating |
|-------------------|
| 300 V |

Mechanical Characteristics

Temperature

| UL Temperature | Operating |
|----------------|-----------------|
| 105°C | -20°C to +105°C |

Bend Radius

| Stationary Min. | Installation Min. | Flexing Min. |
|---------------------|---------------------|---------------------|
| 1.568 in (39.83 mm) | 1.568 in (39.83 mm) | 3.136 in (79.65 mm) |

| | |
|--------------------|---------------------------|
| Max. Pull Tension: | 158 lbs (71.7 kg) |
| Bulk Cable Weight: | 88 lbs/1000ft (130 kg/km) |

Standards and Compliance

| | |
|----------------------------------|--|
| Environmental Suitability: | IndoorRiser, Indoor, Outdoor, Non-Halogenated, Sunlight Resistance |
| Flammability / Reaction to Fire: | UL 1666 Riser, 1202, IEC 60331-21, BS EN 50200 PH120 |
| NEC / UL Compliance: | Article 760, FPLR, ITC, PLTC |
| European Directive Compliance: | EU Directive 2011/65/EU (RoHS 2) |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |
| Other Standard Compliance(s): | BS 6387 CWZ, EN50200 PH120 |
| Plenum Number: | No |

History

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| Update and Revision: | Revision Number: 0.40 Revision Date: 07-18-2025 |
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