



Product: [5020FME](#)

Safe-T-Line, 1 p #12 Str BC, Silicone Ins, OS, LSZH Jkt, FPLR, CWZ, PH120

Product Description

Safe-T-Line 1 Pair x AWG12 (Solid SBC) Fire resistant Multi-conductor, BS 6387 CWZ, EN 50200 PH120, EN60331-2 , Shielded, 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
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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)	Red, Black

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	14 AWG (7x22) TC

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PO - Polyolefin	0.045 in (1.1 mm)	0.395 in (10.0 mm)

Table Notes:	Highly Flame Retardant Non-Halogenated Polyolefin
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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.
3.95 in (100 mm)	3.95 in (100 mm)	5.925 in (150.5 mm)

Max. Pull Tension:	213 lbs (96.6 kg)
Bulk Cable Weight:	104 lbs/1000ft (155 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

Update and Revision:	Revision Number: 0.40 Revision Date: 07-10-2025
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