



Product: [5002FME](#)

Safe-T-Line, 4 C #12 Str BC, Silicone Ins, OS, LSZH Jkt, FPLR, CWZ, PH120

Product Description

Safe-T-Line 4 Conductor x AWG12 (7x20 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	No. of Elements	Size	Stranding	Material
Conductor(s)	4	12 AWG	7x20	BC - Bare Copper

Insulation				
Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	Silicone Rubber	0.034 in (0.86 mm)	0.161 in (4.09 mm)	Red, Black, Black #3, Black #4

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	Ripcord
PO - Polyolefin	0.045 in (1.1 mm)	0.484 in (12.3 mm)	Yes

Table Notes:	Highly Flame Retardant Non-Halogenated Polyolefin
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Electrical Characteristics

Electricals	
Nom. Conductor DCR	Max. Current
1.68 Ohm/1000ft (5.51 Ohm/km)	24 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.
4.84 in (123 mm)	4.84 in (123 mm)	7.26 in (184 mm)

Max. Pull Tension:	402 lbs (182 kg)
Bulk Cable Weight:	182 lbs/1000ft (271 kg/km)

Standards and Compliance

Environmental Suitability:	IndoorRiser, Indoor, Outdoor, Non-Halogenated, Sunlight Resistance
Flammability / Reaction to Fire:	UL 1666 Riser, 1202, IEC 60331-23, 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: 0.42 Revision Date: 07-10-2025
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