



**Product:** [5000FME](#)

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

Product Description

Safe-T-Line 1 Pair x AWG12 (7x22 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
Pair(s)	1	12 AWG	7x20	BC - Bare Copper

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

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

Inner Jacket
Nom. Diameter
0.417 in (10.6 mm)

Outer Jacket		
Material	Nom. Thickness	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	0.045 in (1.1 mm)	0.417 in
Overall Cable Diameter (Nominal):	0.417 in (10.6 mm)	

Electrical Characteristics

Electricals		
Element	Nom. Conductor DCR	Max. Current
Pair(s)	1.72 Ohm/1000ft	21 Amps per Conductor at 25°C

Voltage
UL Voltage Rating
300 V

Mechanical Characteristics

Temperature	
UL Temperature	Operating

105°C	-20°C To 105°C
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**Bend Radius**

Stationary Min.	Installation Min.
4.17 in (106 mm)	4.17 in (106 mm)

Max. Pull Tension:	182 lbs (82.6 kg)
Bulk Cable Weight:	109 lbs/1000ft

**Standards and Compliance**

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance
Flammability / Reaction to Fire:	UL 1666 riser, 1202, BS 6387 CWZ
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):	EN50200 (PH120)
Plenum Number:	No

**History**

Update and Revision:	Revision Number: 0.38 Revision Date: 07-02-2025
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