



Product: [5240FRE](#)

Safe-T-Line, 1 Pr #16 Str BC, Silicone Ins, OS, LSZH Jkt, FPLR, PLTC, CWZ, PH120

Product Description

Safe-T-Line 1 Pair x AWG16 (7x24H 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
------------------------	--

Construction Details

Conductor			
No. of Elements	Size	Stranding	Material
2	16 AWG	7x24H	BC - Bare Copper

Insulation			
Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Silicone Rubber	0.035 in (0.89 mm)	0.127 in (3.23 mm)	Black, Natural

Outer Shield			
Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	18 AWG (7x26H) TC

Outer Jacket		
Material	Nom. Thickness	Nom. Diameter
PO - Polyolefin	0 mm (0.0 in)	0.350 in (8.89 mm)

Electrical Characteristics

Electricals	
Nom. Conductor DCR	Max. Current
4.27 Ohm/1000ft (14.0 Ohm/km)	19 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.
3.50 in (88.9 mm)	3.50 in (88.9 mm)

Max. Pull Tension:	94 lbs (43 kg)
Bulk Cable Weight:	63 lbs/1000ft (94 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, UV 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: 0.41 Revision Date: 07-18-2025
----------------------	---

© 2025 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.