Belden



Product: 5220FL

Fire Alarm, #16-2c BC, Shielded, FPLR

Product Description

Fire Alarm Cable, Riser-FPLR, 2-16 AWG solid bare copper conductors with polypropylene insulation, overall Beldfoil® shield, PVC jacket with ripcord

Technical Specifications

Product Overview

Suitable Applications:	Fire Alarm, Monitor/Detection, Circuits: Audio, Control, Initiating, Notification, Noisy Environment

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	2	16 AWG	Solid	BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PP - Polypropylene	0.007 in (0.18 mm)	0.065 in (1.7 mm)	Black, Red

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	24 AWG (Solid) TC

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.017 in (0.43 mm)	0.170 in (4.32 mm)	Yes

Overall Cable Diameter (Nominal):	0.170 in (4.32 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Inductance	Max. Current
Conductor(s)	3.9 Ohm/1000ft	65.5 pF/ft (215 pF/m)	118 pF/ft (387 pF/m)	0.14 µH/ft (0.46 µH/m)	6.3 Amps per conductor @ 25°C

Nom Outer Shield DCR:	16.9 Ohm/1000ft (55.4 Ohm/km)

Voltage

UL Voltage Rating
300 V (FPLR)

Mechanical Characteristics

Temperature

UL Temperature	Operating
75°C	-20°C to +75°C

Bend Radius

Stationary Min.	Installation Min.
1.7 in (43 mm)	1.7 in (43 mm)

Max. Pull Tension:	75 lbs (34 kg)
Bulk Cable Weight:	23 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor - Riser, Indoor
Flammability / Reaction to Fire:	UL 1666 Riser, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 760, FPLR
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Plenum Number:	6220FL

History

Update and Revision:	Revision Number: 0.465 Revision Date: 09-07-2025

Part Numbers

Variants

Item #	Color	UPC	Footnote
5220FL D151000	Blue	612825158301	
5220FL 0021000	Red	612825158318	C
5220FL 0091000	White	612825158325	

Footnote:	C - CRATE REEL PUT-UP.

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