Belden



Product: 5220FN

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

Product Description

Fire Alarm Cable, Rated-NPLF, 2-16 AWG solid bare copper conductors with PVC/nylon insulation, overall Beldfoil® shield, PVC jacket with ripcord

Technical Specifications

Product Overview

Suitable Applications:	Fire Alarm, Non-Power Limited, 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)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.021 in (0.53 mm)	0.094 in (2.4 mm)	Black, Red

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	20 AWG (7x28) TC

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.037 in (0.94 mm)	0.266 in	Yes

Overall Cable Diameter (Nominal):	0.266 in

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)	4 Ohm/1000ft	48 pF/ft (160 pF/m)	86.4 pF/ft (283 pF/m)	0.19 µH/ft (0.62 µH/m)	6.3 Amps per Conductor at 25ºC

Nom Outer Shield DCR:	7.1 Ohm/1000ft (23 Ohm/km)

Voltage

UL Voltage Rating
150 V

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Min.
3.99 in (101 mm)	3.99 in

Max. Pull Tension:	75 lbs (34 kg)
Bulk Cable Weight:	41 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor
Flammability / Reaction to Fire:	UL1685 UL Loading
NEC / UL Compliance:	Article 760, NPLF
European Directive Compliance:	EU CE Mark, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.318 Revision Date: 09-07-2025

Part Numbers

Variants

Item #	Color	UPC	Footnote
5220FN 0021000	Red	612825158349	C

Footnote:	C - CRATE REEL PUT-UP.

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