



Product: [5020FN](#) 

Fire Alarm, #12-2c BC, Shielded, NPLF

Product Description

Fire Alarm Cable, Rated-NPLF, 2-12 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
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Construction Details

Conductor

Size	Stranding	Material
12	Solid	BC - Bare Copper

Insulation

Material	Nom. Thickness	Color Code
PVC/Nylon - Polyvinyl Chloride + Nylon	0.021 in (0.53 mm)	Black, Red

Outer Shield

Shield Type	Material	Coverage
Tape	Bi-Laminate (Alum+Poly)	100%

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.042 in (1.1 mm)	0.337 in	Yes

Electrical Characteristics

Electricals

Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Inductance	Max. Current
1.58 Ohm/1000ft (5.18 Ohm/km)	66.9 pF/ft (219 pF/m)	120.4 pF/ft (395.0 pF/m)	0.16 µH/ft (0.52 µH/m)	12 Amps per Conductor at 25°C
Nom Outer Shield DCR:		6.9 Ohm/1000ft (23 Ohm/km)		

Voltage

UL Voltage Rating
150 V RMS

Mechanical Characteristics

Temperature

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

Max. Pull Tension:	172 lbs (78.0 kg)
Bulk Cable Weight:	73.4 lbs/1000ft (109 kg/km)

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: 0.314 Revision Date: 09-07-2025
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Part Numbers

Variants

Item #	Color	UPC
5020FN 002500	Red	612825155904

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