



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 | Number of Element | 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) | Max. Current |
|--------------|--------------------|-------------------------------|-------------------------------------------------|--------------------------------|
| Conductor(s) | 4 Ohm/1000ft | 48 pF/ft (160 pF/m) | 86.4 pF/ft (283 pF/m) | 6.3 Amps per Conductor at 25°C |

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: 0.314 Revision Date: 05-05-2023 |
|----------------------|--------------------------------------------------|

Part Numbers

Variants

| Item # | Color | UPC |
|----------------|-------|--------------|
| 5220FN 0021000 | Red | 612825158349 |

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