



Product: <u>5222FN</u> ☑

Fire Alarm, #16-4c BC, Shielded, NPLF

Product Description

Fire Alarm Cable, Rated-NPLF, 4-16 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 |
|------------------------|--|

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | No. of Conductors |
|-------|-------------|------------------|-------------------|
| 16 | Solid | BC - Bare Copper | 4 |
| Condu | ctor Count: | | 4 |

Insulation

| Material | Nominal Wall Thickness |
|--|------------------------|
| PVC/Nylon - Polyvinyl Chloride + Nylon | 0.021 in |

Color Chart

| Number | Color |
|--------|-------|
| 1 | Black |
| 2 | Red |
| 3 | Brown |
| 4 | Blue |

Outer Shield

| Type | Material | Material Trade Name | Coverage [%] | Drainwire Material | Drainwire AWG | Drainwire Construction n x D |
|------|----------------------------|---------------------|--------------|--------------------|---------------|------------------------------|
| Таре | Bi-Laminate (Alum+Poly) | Beldfoil® | 100% | TC - Tinned Copper | 20 | 7x28 |

Outer Jacket

| Material | Nominal Diameter | Nominal Wall Thickness | Ripcord |
|--------------------------|------------------|------------------------|---------|
| PVC - Polyvinyl Chloride | 0.315 in | 0.042 in | Yes |

Construction and Dimensions

Cabling



Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 3.93 Ohm/1000ft | 15.25 Ohm/1000ft |

Capacitance

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|---|---|
| 33 pF/ft | 59.3 pF/ft |

Current

Max. Recommended Current [A] 5 Amps per Conductor at 25°C

Voltage

UL Voltage Rating 150 V RMS

Temperature Range

| UL Temp Rating: | 75°C |
|------------------------------|----------------|
| Operating Temperature Range: | -20°C To +75°C |

Mechanical Characteristics

| Bulk Cable Weight: | 69.7 lbs/1000ft |
|------------------------------|-----------------|
| Max. Pull Tension: | 138.8 lbs |
| Min. Bend Radius/Minor Axis: | 3.25 in |

Standards

| NEC Articles: | Article 760 |
|----------------------|-------------|
| NEC/(UL) Compliance: | NPLF |

Applicable Environmental and Other Programs

| EU Directive 2000/53/EC (ELV): | Yes |
|-----------------------------------|-------------------------------|
| EU Directive 2003/96/EC (BFR): | Yes |
| EU Directive 2011/65/EU (RoHS 2): | Yes |
| EU Directive 2012/19/EU (WEEE): | Yes |
| EU Directive Compliance: | EU Directive 2003/11/EC (BFR) |
| EU CE Mark: | Yes |
| MII Order #39 (China RoHS): | Yes |

Suitability

| Suitability - Indoor: | Yes |
|-----------------------|-----|
| | |

Flammability, LS0H, Toxicity Testing

| UL Flammability: | UL1685 UL Loading |
|--------------------|-------------------|
| UL voltage rating: | 150 V RMS |

Plenum/Non-Plenum

| Plenum (Y/N): | No | | |
|---------------|----|--|--|

Related Part Numbers

Variants

| Item # | Color | UPC |
|----------------|-------|--------------|
| 5222FN 0021000 | Red | 612825158547 |

History

| Update and Revision: | Revision Number: 0.313 Revision Date: 02-03-2025 |
|----------------------|--|

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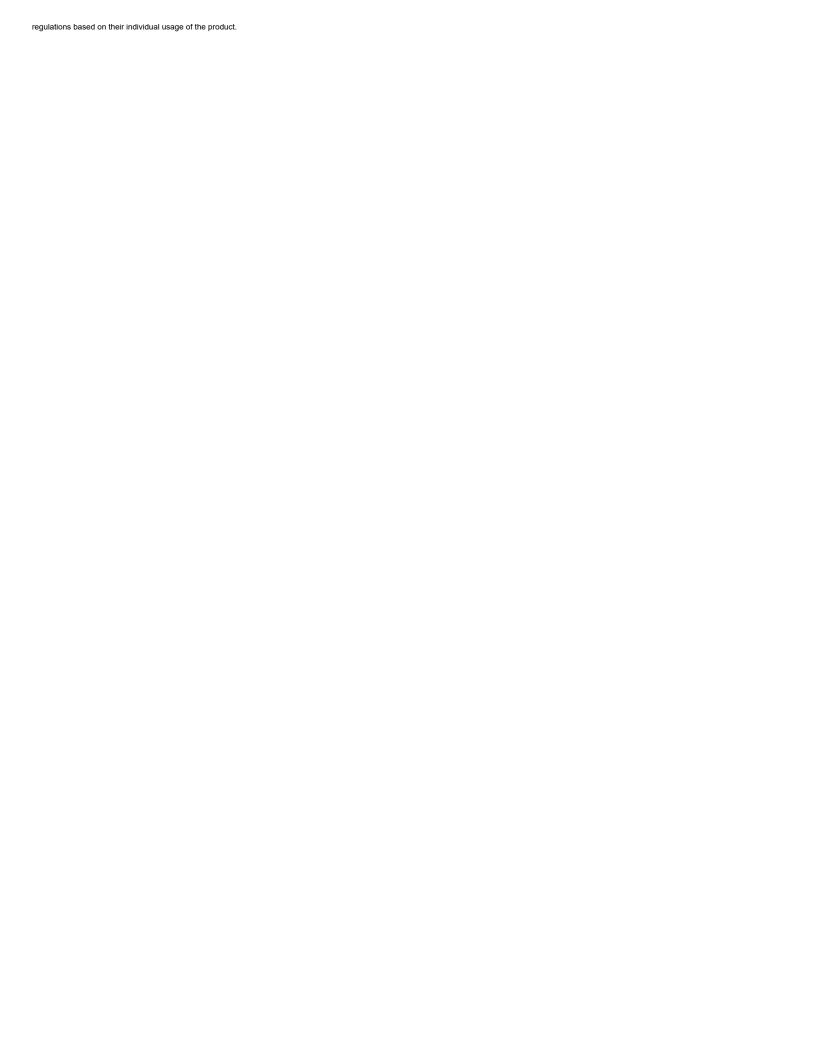
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