



Product: [5222FN](#)

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                 |

|                  |   |
|------------------|---|
| Conductor Count: | 4 |
|------------------|---|

Insulation

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

Color Chart

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

Outer Shield Material

| Type | Material    | Material Trade Name | Coverage [%] | Drainwire Material | Drainwire AWG | Drainwire Construction n x D |
|------|-------------|---------------------|--------------|--------------------|---------------|------------------------------|
| Tape | Alum / Poly | Beldfoil®           | 100%         | TC - Tinned Copper | 20            | 7x28                         |

Outer Jacket Material

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

Construction and Dimensions

Cabling

| Twists     |
|------------|
| 3 twist/ft |

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 Temp 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 II):    | Yes                           |
| EU Directive 2012/19/EU (WEEE):       | Yes                           |
| EU Directive Compliance:              | EU Directive 2003/11/EC (BFR) |
| EU CE Mark:                           | Yes                           |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2005-07-01                    |
| 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 |
|---------------|----|

Part Number

Variants

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

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.231 Revision Date: 06-24-2020 |
|----------------------|--------------------------------------------------|

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