

5220FL Multi-Conductor - Commercial Applications - 2 Conductors Cabled



For more Information
please call

1-800-Belden1



General Description:

Fire Alarm Cable, Riser-FPLR, 2-16 AWG solid bare copper conductors with polyolefin insulation, Overall Beldfoil® shield, PVC jacket with ripcord

Usage (Overall)

Suitable Applications: Fire Protection, Alarm, Signal, Monitor/Detection, Audio Circuits, Control Circuits, Initiating Circuits, Notification Circuits

Physical Characteristics (Overall)

Conductor

AWG:

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 2 | 16 | Solid | BC - Bare Copper |

Total Number of Conductors: 2

Insulation

Insulation Material:

| Insulation Material | Wall Thickness (in.) |
|---------------------|----------------------|
| PP - Polypropylene | 0.007 |

Outer Shield

Outer Shield Material:

| Outer Shield Trade Name | Outer Shield Material | Coverage (%) |
|-------------------------|------------------------------|--------------|
| Beldfoil® | Aluminum Foil-Polyester Tape | 100 |

Outer Shield Drain Wire AWG:

| AWG | Stranding | Drain Wire Conductor Material |
|-----|-----------|-------------------------------|
| 24 | Solid | TC - Tinned Copper |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material | Nom. Wall Thickness (in.) |
|--------------------------|---------------------------|
| PVC - Polyvinyl Chloride | 0.017 |

Outer Jacket Ripcord: Yes

Overall Cable

Overall Cabling Lay Length & Direction:

| Length (in.) | Twists (twist/ft) |
|--------------|-------------------|
| 2.500 | 4.800 |

Overall Cabling Color Code Chart:

| Number | Color |
|--------|-------|
| 1 | Black |
| 2 | Red |

Overall Nominal Diameter: 0.170 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +75°C

UL Temperature Rating: 75°C

Bulk Cable Weight: 24 lbs/1000 ft.

Max. Recommended Pulling Tension: 75 lbs.

Min. Bend Radius/Minor Axis: 1.750 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: FPLR

NEC Articles: 760

5220FL Multi-Conductor - Commercial Applications - 2 Conductors Cabled

| | |
|---------------------------------------|------------|
| EU Directive 2011/65/EU (ROHS II): | Yes |
| EU CE Mark: | Yes |
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2002/95/EC (RoHS): | Yes |
| EU RoHS Compliance Date (mm/dd/yyyy): | 04/01/2005 |
| EU Directive 2002/96/EC (WEEE): | Yes |
| EU Directive 2003/11/EC (BFR): | Yes |
| CA Prop 65 (CJ for Wire & Cable): | Yes |
| MII Order #39 (China RoHS): | Yes |

Flame Test

| | |
|-----------------|-----------------------|
| UL Flame Test: | UL1666 Vertical Shaft |
| CSA Flame Test: | FT4 |

Suitability

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

Plenum/Non-Plenum

| | |
|----------------|--------|
| Plenum (Y/N): | No |
| Plenum Number: | 6220FL |

Electrical Characteristics (Overall)

Nom. Inductance:

Inductance (µH/ft)
0.140

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
65.500

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
118.000

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
3.9

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
16.900

Max. Operating Voltage - UL:

Voltage
300 V RMS

Max. Recommended Current:

| Description | Current |
|----------------------|-------------------------------|
| 10C Temperature Rise | 6.3 Amps per conductor @ 25°C |

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|-----------------|----------|-------------|--------|-------|-------------------|
| 5220FL D151000 | 1,000 FT | 25.000 LB | BLUE | | 2 #16 PP FS FRPVC |
| 5220FL 002A1000 | 1,000 FT | 27.000 LB | RED | | 2 #16 PP FS FRPVC |
| 5220FL 0021000 | 1,000 FT | 25.000 LB | RED | C | 2 #16 PP FS FRPVC |
| 5220FL 004U1000 | 1,000 FT | 25.000 LB | YELLOW | | 2 #16 PP FS FRPVC |
| 5220FL 0041000 | 1,000 FT | 25.000 LB | YELLOW | | 2 #16 PP FS FRPVC |
| 5220FL 0091000 | 1,000 FT | 25.000 LB | WHITE | | 2 #16 PP FS FRPVC |

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 3 Revision Date: 08-20-2013

© 2015 Belden, Inc
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability. Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

5220FL Multi-Conductor - Commercial Applications - 2 Conductors Cabled

All sales of Belden products are subject to Belden's standard terms and conditions of sale. Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.