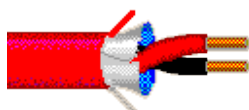


## 5020FJ Multi-Conductor - Commercial Applications, Addressable Systems - 2 Cond Cabled



For more Information  
please call

1-800-Belden1

**Description:**

12 AWG bare copper conductors, foam high-density polyethylene insulation, cabled together, PVC jacket with ripcord, sequential footage marking every two feet.

**Usage (Overall)****Suitable Applications:**

Addressable Fire Systems, Data Circuits, Audio Circuits, Control Circuits, Initiating Circuits, Notification Circuits

**Physical Characteristics (Overall)****Conductor****AWG:**

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 2            | 12  | Solid     | BC - Bare Copper   |

**Insulation****Insulation Material:**

| Insulation Trade Name | Insulation Material                    | Wall Thickness (in.) |
|-----------------------|----------------------------------------|----------------------|
| Datalene®             | FHDPE - Foam High Density Polyethylene | .020                 |

**Outer Shield****Outer Shield Material:**

| Outer Shield Trade Name | Type | Outer Shield Material                        | Coverage (%) |
|-------------------------|------|----------------------------------------------|--------------|
| Beldfoil®               | Tape | Aluminum Foil-Polyester Tape w/Shorting Fold | 100          |

**Outer Shield Drain Wire AWG:**

| AWG | Stranding | Drain Wire Conductor Material |
|-----|-----------|-------------------------------|
| 20  | 7x28      | TC - Tinned Copper            |

**Outer Jacket****Outer Jacket Material:**

| Outer Jacket Material    | Nom. Wall Thickness (in.) |
|--------------------------|---------------------------|
| PVC - Polyvinyl Chloride | .033                      |

**Outer Jacket Ripcord:**

Yes

**Overall Cable****Overall Cabling Lay Length & Direction:**

| Length (in.) | Twists (ft.) |
|--------------|--------------|
| 3.5          | 3.4          |

**Overall Cabling Color Code Chart:**

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

**Overall Nominal Diameter:**

0.317 in.

**Mechanical Characteristics (Overall)****Operating Temperature Range:**

-20°C To +75°C

**UL Temperature Rating:**

75°C

**Bulk Cable Weight:**

64.400 lbs/1000 ft.

## 5020FJ Multi-Conductor - Commercial Applications, Addressable Systems - 2 Cond Cabled

|                                   |          |
|-----------------------------------|----------|
| Max. Recommended Pulling Tension: | 172 lbs. |
|-----------------------------------|----------|

|                                        |           |
|----------------------------------------|-----------|
| Min. Bend Radius (Install)/Minor Axis: | 3.250 in. |
|----------------------------------------|-----------|

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; Environmental Programs

|                         |     |
|-------------------------|-----|
| NEC/(UL) Specification: | FPL |
|-------------------------|-----|

|               |     |
|---------------|-----|
| NEC Articles: | 760 |
|---------------|-----|

|             |     |
|-------------|-----|
| 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): | 01/01/2004 |
|---------------------------------------|------------|

|                                 |     |
|---------------------------------|-----|
| 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: | UL1685 UL Loading |
|----------------|-------------------|

## Plenum/Non-Plenum

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

## Electrical Characteristics (Overall)

## Nom. Inductance:

Inductance (μH/ft)

.16

## Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

36

## Nom. Capacitance Cond. to Other Conductor &amp; Shield:

Capacitance (pF/ft)

64.8

## Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

1.5

## Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

6.9

## Max. Operating Voltage - UL:

Voltage

300 V RMS

## Max. Recommended Current:

Current

10 Amps per conductor @ 25°C

## Related Documents:

No related documents are available for this product

## Put Ups and Colors:

| Item #         | Putup    | Ship Weight | Color | Notes | Item Desc        |
|----------------|----------|-------------|-------|-------|------------------|
| 5020FJ 0021000 | 1,000 FT | 69.000 LB   | RED   |       | 2 #12 FPE FS PVC |

## 5020FJ Multi-Conductor - Commercial Applications, Addressable Systems - 2 Cond Cabled

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