

## 5200FZ Multi-Conductor - Circuit Integrity in a Conduit



For more Information  
please call

1-800-Belden1



### Description:

16 AWG stranded (7x24) bare copper conductors, ceramifiable silicone insulation, Beldfoil® shield (100% coverage), stranded tinned copper drain wire, FRPE (low smoke non-halogen) jacket, sequential footage marking every two feet.

### Usage (Overall)

**Suitable Applications:**

Survivability, Survivability from Attach by Fire, Fire Alarm Circuit Integrity, CI, Survivability by NFPA72, Sim to MI, Similar to Mineral Insulated, FPLR-CI, Emergency Circuits, Notification Devices, Fire Pumps, 2 hour fire rating

### Physical Characteristics (Overall)

#### Conductor

**AWG:**

# Conductors	AWG	Stranding	Conductor Material
2	16	7x24	BC - Bare Copper

#### Insulation

**Insulation Material:**

Insulation Material	Wall Thickness (in.)
Silicone Rubber	.035

#### Outer Shield

**Outer Shield Material:**

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

**Outer Shield Drain Wire AWG:**

AWG	Stranding	Drain Wire Conductor Material
18	7x26	TC - Tinned Copper

#### Outer Jacket

**Outer Jacket Material:**

Outer Jacket Material	Nom. Wall Thickness (in.)
FRPE - Flame Retardant Polyethylene	.056

#### Overall Cable

**Overall Cabling Color Code Chart:**

Number	Color
1	Black
2	Red

**Overall Nominal Diameter:** 0.370 in.

### Mechanical Characteristics (Overall)

**Operating Temperature Range:** -20°C To +105°C

**UL Temperature Rating:** 105°C

**Bulk Cable Weight:** 67 lbs/1000 ft.

**Max. Recommended Pulling Tension:** 85 lbs.

**Min. Bend Radius (Install)/Minor Axis:** 3.700 in.

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### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

<b>NEC(UL) Specification:</b>	FPLR, Electrical Circuit Protective Systems (FHIT #30)
<b>NEC Articles:</b>	760
<b>EU CE Mark:</b>	Yes
<b>EU Directive 2000/53/EC (ELV):</b>	Yes
<b>EU Directive 2002/95/EC (RoHS):</b>	Yes
<b>EU RoHS Compliance Date (mm/dd/yyyy):</b>	11/11/2005
<b>EU Directive 2002/96/EC (WEEE):</b>	Yes
<b>EU Directive 2003/11/EC (BFR):</b>	Yes
<b>CA Prop 65 (CJ for Wire &amp; Cable):</b>	Yes
<b>MII Order #39 (China RoHS):</b>	Yes

#### Flame Test

<b>UL Flame Test:</b>	UL1666 Riser, UL2196 Two Hour Circuit Integrity (in conduit only)
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#### Plenum/Non-Plenum

<b>Plenum (Y/N):</b>	No
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### Electrical Characteristics (Overall)

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

22

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

Capacitance (pF/ft)

39.500

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

4.0

#### Max. Operating Voltage - UL:

Voltage

300 V RMS

### Notes (Overall)

**Notes:** UL 2196 (2 Hour Flame Rated) - Only when installed in conduit per FHIT #30 of the UL fire resistance directory.

### Related Documents:

No related documents are available for this product

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
5200FZ 0021000	1,000 FT	75.000 LB	RED	C	2 #16 FS SIL FRNHPO

**Notes:**

C = CRATE REEL PUT-UP.

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