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1-800-Belden1



### General Description:

18 AWG stranded (7x26) bare copper conductors, ceramifiable silicone insulation, Beldfoil® shield, 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
4	18 7x26	BC - Bare Copper

**Total Number of Conductors:** 4

#### Insulation

**Insulation Material:**

Insulation Material	Wall Thickness (mm)
Silicone Rubber	0.8636

#### Outer Shield

**Outer Shield Material:**

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Polyester Tape-Aluminum Foil	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 (mm)
FRPE - Flame Retardant Polyethylene	1.143

#### Overall Cable

**Overall Cabling Color Code Chart:**

Number	Color
1	Black#1
2	Black#2
3	Black#3
4	Black#4

**Overall Nominal Diameter:** 9.449 mm

### Mechanical Characteristics (Overall)

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

**UL Temperature Rating:** 105°C

**Bulk Cable Weight:** 139.891 Kg/Km

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Max. Recommended Pulling Tension:	398.559 N
Min. Bend Radius/Minor Axis:	95.250 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	FPLR-CI
NEC Articles:	760
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):	01/01/2005
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 Riser, UL2196 Two Hour Circuit Integrity
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#### Plenum/Non-Plenum

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

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
88.587

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
19.2267

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
29.529

#### Max. Operating Voltage - UL:

Voltage	Description
300 V RMS	FPLR only applications
41 V RMS	CI applications

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
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