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1-800-Belden1



General Description:

Fire Alarm Cable, Plenum-FPLP, 2-14 AWG stranded bare copper conductors with Flamarrest® insulation, Overall Beldfoil® shield, Flamarrest® jacket with ripcord

Usage (Overall)

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

Physical Characteristics (Overall)

Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
2	14	19x27	BC - Bare Copper

Total Number of Conductors: 2

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (in.)
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride	0.011

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
22	7x30	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material	Nom. Wall Thickness (in.)
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride	.015

Outer Jacket Ripcord: Yes

Overall Cable

Overall Cabling Lay Length & Direction:

Length (in.)	Twists (twist/ft)
2.750	4.400

Overall Cabling Color Code Chart:

Number	Color
1	Black
2	Red

Overall Nominal Diameter: 0.218 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: 0°C To +75°C

UL Temperature Rating: 75°C

Bulk Cable Weight: 38 lbs/1000 ft.

Max. Recommended Pulling Tension: 95 lbs.

Min. Bend Radius/Minor Axis: 2.125 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: FPLP

NEC Articles: 760

6100FL Multi-Conductor - Commercial Audio Systems

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):	10/01/2009
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:	NFPA 262
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Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	5100FL

Electrical Characteristics (Overall)

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

78.500

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

141.250

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

2.500

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

10.000

Max. Operating Voltage - UL:

Voltage

300 V RMS

Max. Recommended Current:

Current

14 Amps per conductor @ 25°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
6100FL 002U1000	1,000 FT	40.000 LB	RED		2 #14 FLRST FS FLRST
6100FL 0021000	1,000 FT	40.000 LB	RED	C	2 #14 FLRST FS FLRST

Notes:

C = CRATE REEL PUT-UP.

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