Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



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

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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:

Insulation

Insulation Material:

l	Insulation Material	Wall Thickness (mm)			
	PP - Polypropylene	0.178			

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		Stranding	Drain Wire Conductor Material		
	24	Solid	TC - Tinned Copper		

Outer Jacket

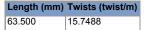
Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.432

Outer Jacket Ripcord: Yes

Overall Cable

Overall Cabling Lay Length & Direction:



Overall Cabling Color Code Chart:

Number	Color
1	Black
2	Red

Overall Nominal Diameter: 4.318 mm

Mechanical Characteristics (Overall)

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

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Bulk Cable Weight:	35.717 Kg/Km
Max. Recommended Pulling Tension:	333.615 N
Min. Bend Radius/Minor Axis:	44.450 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

Applicable Standards & Environmental Programs		
NEC/(UL) Specification:	FPLR	
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):	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	

6220FL

Electrical Characteristics (Overall)

Nom. Inductance:

Inductance (µH/m) 0.459

Plenum Number:

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m) 214.906

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m) 387.158

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 12.7959

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 55.449

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

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

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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 002Z1000	1,000 FT	27.000 LB	RED		2 #16 PO FS FRPVC
5220FL 0021000	1,000 FT	25.000 LB	RED	С	2 #16 PP FS FRPVC
5220FL 004U1000	1,000 FT	26.000 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

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