Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



5100FE Multi-Conductor - Commercial Audio Systems - 2 Conductors Cabled

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For more Information please call

1-800-Belden1



General Description:

Security & Commercial Audio Cable, Riser-CL3R-FPLR, 2-14 AWG stranded bare copper conductors with polyolefin insulation, Beldfoil® shield and PVC jacket with ripcord

Usage (Overall)

Suitable Applications:

Intercom/PA Systems, Sound/Audio Systems, Fire Alarm Systems

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 Material Wall Thickness (mm)
PP - Polypropylene | 0.279

Outer Shield

Outer Shield Material:

Outer Shield Trade Name Typ		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	7x#30	TC - Tinned Copper

Outer Jacket

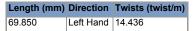
Outer Jacket Material:

١	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	White

Overall Nominal Diameter: 5.639 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +75°C
UL Temperature Rating:	75°C
Bulk Cable Weight:	68.160 Kg/Km

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Max. Recommended Pulling Tension:	557.804 N		
Min. Bend Radius/Minor Axis:	57.150 mm		

Applicable Specifications and Agency Compliance (Overall)

Ap

Applicable Standards & Environmental Programs			
NEC/(UL) Specification:	CL3R, FPLR		
NEC Articles:	725, 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		
Plenum Number:	6100FE		

Electrical Characteristics (Overall)

Nom. Inductance:

Inductance (µH/m) 0.49215

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m) 177.174

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m) 319.077

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 8.33374

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 32.810

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

Description	Current		
10C Temperature Rise	8 Amps per conductor @ 25°C ambient		

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Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
5100FE 002Z1000	1,000 FT	41.000 LB	RED		2 #14 PO FS FRPVC
5100FE 0021000	1,000 FT	39.000 LB	RED	С	2 #14 PP FS FRPVC
5100FE 008U1000	1,000 FT	39.000 LB	GRAY		2 #14 PP FS FRPVC
5100FE 008Z1000	1,000 FT	41.000 LB	GRAY		2 #14 PO FS FRPVC
5100FE 0081000	1,000 FT	39.000 LB	GRAY	С	2 #14 PP FS FRPVC
5100FE 008500	500 FT	20.000 LB	GRAY		2 #14 PP FS FRPVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 4 Revision Date: 01-20-2015

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