

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

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	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	7x#30	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:

Length (mm)	Direction	Twists (twist/m)
69.850	Left Hand	14.436

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

Max. Recommended Pulling Tension: 557.804 N

Min. Bend Radius/Minor Axis: 57.150 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CL3R, FPLR

NEC Articles: 725, 760

## METRIC MEASUREMENT VERSION

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

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
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#### 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

### Put Ups and Colors:

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

#### Notes:

C = CRATE REEL PUT-UP.

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**METRIC MEASUREMENT VERSION**

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