

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 |



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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

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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)

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 | C | 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 | 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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