

## 5500FE Multi-Conductor - Commercial Audio Systems - 2 Conductors Cabled

For more Information  
please call

1-800-Belden1



### General Description:

Security & Alarm Cable, Riser-CMR, 2-22 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

### Physical Characteristics (Overall)

#### Conductor

**AWG:**

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 2            | 22  | 7x30      | BC - Bare Copper   |

**Total Number of Conductors:** 2

#### Insulation

**Insulation Material:**

| Insulation Material | Wall Thickness (mm) |
|---------------------|---------------------|
| PP - Polypropylene  | 0.203               |

#### 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 |
|-----|-----------|-------------------------------|
| 24  | 7x#32     | 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) |
|-------------|-----------|------------------|
| 63.500      | Left Hand | 15.749           |

**Overall Cabling Color Code Chart:**

| Number | Color |
|--------|-------|
| 1      | Black |
| 2      | Red   |

**Overall Nominal Diameter:** 3.200 mm

### Mechanical Characteristics (Overall)

**Operating Temperature Range:** -20°C To +75°C

**UL Temperature Rating:** 75°C

**Bulk Cable Weight:** 14.138 Kg/Km

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|                                   |           |
|-----------------------------------|-----------|
| Max. Recommended Pulling Tension: | 105.422 N |
| Min. Bend Radius/Minor Axis:      | 31.750 mm |

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

|                                       |            |
|---------------------------------------|------------|
| NEC/(UL) Specification:               | CMR        |
| NEC Articles:                         | 800        |
| CEC/C(UL) Specification:              | CMG        |
| 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 |
| C(UL) Flame Test: | FT4                   |

#### Suitability

|                       |     |
|-----------------------|-----|
| Suitability - Indoor: | Yes |
|-----------------------|-----|

#### Plenum/Non-Plenum

|                |        |
|----------------|--------|
| Plenum Number: | 6500FE |
|----------------|--------|

### Surface Printing (Overall)

|                   |   |
|-------------------|---|
| Surface Printing: | NEW GENERATION(R) BY BELDEN 5500FE CMR 75C 2C22 SHIELDED (UL) E108998 OR C(UL) CMG (2 FT., 7 DIGIT SEQUENTIAL) FEET |
|-------------------|---|

### Electrical Characteristics (Overall)

#### Nom. Capacitance Conductor to Conductor:

|                    |
|--------------------|
| Capacitance (pF/m) |
| 113.195            |

#### Nom. Capacitance Cond. to Other Conductor & Shield:

|                    |
|--------------------|
| Capacitance (pF/m) |
| 203.422            |

#### Nom. Conductor DC Resistance:

|                     |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 52.8241             |

#### Nominal Outer Shield DC Resistance:

|                     |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 52.8241             |

#### Max. Operating Voltage - UL:

|           |
|-----------|
| Voltage   |
| 300 V RMS |

#### Max. Recommended Current:

| Description          | Current                               |
|----------------------|---------------------------------------|
| 10C Temperature Rise | 2.8 Amps per conductor @ 25°C ambient |

## 5500FE Multi-Conductor - Commercial Audio Systems - 2 Conductors Cabled

### Put Ups and Colors:

| Item #          | Putup    | Ship Weight | Color | Notes | Item Desc         |
|-----------------|----------|-------------|-------|-------|-------------------|
| 5500FE 008U1000 | 1,000 FT | 11.000 LB   | GRAY  |       | 2 #22 PP FS FRPVC |
| 5500FE 008U500  | 500 FT   | 6.000 LB    | GRAY  |       | 2 #22 PP FS FRPVC |
| 5500FE 008Z1000 | 1,000 FT | 13.000 LB   | GRAY  |       | 2 #22 PP FS FRPVC |
| 5500FE 0081000  | 1,000 FT | 11.000 LB   | GRAY  |       | 2 #22 PP FS FRPVC |
| 5500FE 008500   | 500 FT   | 5.500 LB    | GRAY  |       | 2 #22 PP FS FRPVC |
| 5500FE 009U1000 | 1,000 FT | 11.000 LB   | WHITE |       | 2 #22 PP FS FRPVC |
| 5500FE 009Z1000 | 1,000 FT | 13.000 LB   | WHITE |       | 2 #22 PP FS FRPVC |
| 5500FE 010U1000 | 1,000 FT | 11.000 LB   | BLACK |       | 2 #22 PP FS FRPVC |
| 5500FE 010Z1000 | 1,000 FT | 13.000 LB   | BLACK |       | 2 #22 PP FS FRPVC |

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