

## 6300FE Multi-Conductor - Commercial Audio Systems - 2 Conductors Cabled



For more Information  
please call

1-800-Belden1

**General Description:**

Security & Commercial Audio Cable, Plenum-CMP, 2-18 AWG stranded bare copper conductors with Flamarrest® insulation, Beldfoil® shield and Flamarrest® jacket with ripcord

**Usage (Overall)**

**Suitable Applications:** Security Systems, Intercom/PA Systems, Sound/Audio Systems, Power Limited Controls

**Physical Characteristics (Overall)****Conductor****AWG:**

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 2            | 18  | 7x26      | BC - Bare Copper   |

**Total Number of Conductors:** 2

**Insulation****Insulation Material:**

| Insulation Trade Name | Insulation Material                   | Wall Thickness (mm) |
|-----------------------|---------------------------------------|---------------------|
| Flamarrest®           | LS PVC - Low Smoke Polyvinyl Chloride | 0.229               |

**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  | Solid     | TC - Tinned Copper            |

**Outer Jacket****Outer Jacket Material:**

| Outer Jacket Trade Name | Outer Jacket Material                 | Nom. Wall Thickness (mm) |
|-------------------------|---------------------------------------|--------------------------|
| Flamarrest®             | LS PVC - Low Smoke Polyvinyl Chloride | 0.381                    |

**Outer Jacket Ripcord:** Yes

**Overall Cable****Overall Cabling Lay Length & Direction:**

| Length (mm) | Direction | Twists (twist/m) |
|-------------|-----------|------------------|
| 76.200      | Left hand | 13.124           |

**Overall Cabling Color Code Chart:**

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

**Overall Nominal Diameter:** 4.115 mm

**Mechanical Characteristics (Overall)**

**Operating Temperature Range:** 0°C To +75°C

**UL Temperature Rating:** 75°C

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|                                   |              |
|-----------------------------------|--------------|
| Bulk Cable Weight:                | 31.847 Kg/Km |
| Max. Recommended Pulling Tension: | 253.547 N    |
| Min. Bend Radius/Minor Axis:      | 41.275 mm    |

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

|                                       |            |
|---------------------------------------|------------|
| NEC/(UL) Specification:               | CMP        |
| NEC Articles:                         | 800        |
| CEC/C(UL) Specification:              | CMP        |
| 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:    | NFPA 262 |
| C(UL) Flame Test: | FT6      |

**Suitability**

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

**Plenum/Non-Plenum**

|                    |        |
|--------------------|--------|
| Plenum (Y/N):      | Yes    |
| Non-Plenum Number: | 5300FE |

**Electrical Characteristics (Overall)****Nom. Inductance:**

|                   |
|-------------------|
| Inductance (μH/m) |
| 0.49215           |

**Nom. Capacitance Conductor to Conductor:**

|                    |
|--------------------|
| Capacitance (pF/m) |
| 229.67             |

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

|                    |
|--------------------|
| Capacitance (pF/m) |
| 413.406            |

**Nom. Conductor DC Resistance:**

|                     |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 20.9984             |

**Nominal Outer Shield DC Resistance:**

|                     |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 52.168              |

**Max. Operating Voltage - UL:**

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

**Max. Recommended Current:**

| Description | Current |
|-------------|---------|
|-------------|---------|

## METRIC MEASUREMENT VERSION

## 6300FE Multi-Conductor - Commercial Audio Systems - 2 Conductors Cabled

|                      |                                     |
|----------------------|-------------------------------------|
| 10C Temperature Rise | 5 Amps per conductor @ 25°C ambient |
|----------------------|-------------------------------------|

## Put Ups and Colors:

| Item #          | Putup  | Ship Weight | Color   | Notes | Item Desc            |
|-----------------|--------|-------------|---------|-------|----------------------|
| 6300FE 008U1000 | 305 MT | 10.433 KG   | GRAY    |       | 2 #18 FLRST FS FLRST |
| 6300FE 009U1000 | 305 MT | 10.433 KG   | WHITE   |       | 2 #18 FLRST FS FLRST |
| 6300FE 009U250  | 76 MT  | 3.062 KG    | WHITE   |       | 2 #18 FLRST FS FLRST |
| 6300FE 009U500  | 152 MT | 5.443 KG    | WHITE   |       | 2 #18 FLRST FS FLRST |
| 6300FE 010U1000 | 305 MT | 10.433 KG   | BLACK   |       | 2 #18 FLRST FS FLRST |
| 6300FE 877U1000 | 305 MT | 10.433 KG   | NATURAL |       | 2 #18 FLRST FS FLRST |
| 6300FE 877U500  | 152 MT | 5.443 KG    | NATURAL |       | 2 #18 FLRST FS FLRST |
| 6300FE 8771000  | 305 MT | 10.433 KG   | NATURAL | C     | 2 #18 FLRST FS FLRST |
| 6300FE 877500   | 152 MT | 5.443 KG    | NATURAL |       | 2 #18 FLRST FS FLRST |

**Notes:**

C = CRATE REEL PUT-UP.

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