

**Part Number: 6300FC**

Security & Sound, 2 Conductor 18 AWG BC, Shielded, Plenum



### Product Description

Security, Pro Audio & Intercom Cable, 2 Conductor 18 AWG stranded (7x26) bare copper conductors with FEP insulation, Beldfoil® shield, Plenum, Flamarrest® jacket with ripcord.

### Technical Specifications

#### Product Overview

|                        |  |
|------------------------|--|
| Environmental Space:   | Indoor - Plenum                                  |
| Suitable Applications: | Pro Audio, Intercom/PA Systems, Security Systems |

#### Physical Characteristics (Overall)

##### Conductor

| AWG | Stranding | Material         | No. of Conductors |
|-----|-----------|------------------|-------------------|
| 18  | 7x26      | BC - Bare Copper | 2                 |

|                  |        |
|------------------|--------|
| Conductor Count: | 2      |
| Conductor Size:  | 18 AWG |

##### Insulation

| Material                             | Nominal Wall Thickness |
|--------------------------------------|------------------------|
| FEP - Fluorinated Ethylene Propylene | 0.006 in               |

##### Color Chart

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

##### Outer Shield Material

| Type | Material                                     | Material Trade Name | Coverage [%] | Drainwire Material | Drainwire AWG | Drainwire Construction n x D |
|------|--|---------------------|--------------|--------------------|---------------|------------------------------|
| Tape | Aluminum Foil-Polyester Tape w/Shorting Fold | Beldfoil®           | 100 %        | TC - Tinned Copper | 20            | 7x28 mm                      |

##### Outer Jacket Material

| Material                              | Material Trade Name | Nominal Diameter | Nominal Wall Thickness | Ripcord |
|---------------------------------------|---------------------|------------------|------------------------|---------|
| LS PVC - Low Smoke Polyvinyl Chloride | Flamarrest®         | 0.155 in         | 0.0165 in              | Yes     |

#### Electrical Characteristics

##### Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 6.5 Ohm/1000ft        | 7.3 Ohm/1000ft           |

##### Capacitance

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|---|---|
| 57 pF/ft                                | 102.6 pF/ft   |

|            |                           |
|------------|---------------------------|
| Shielding: | Foil(s) or Copper Tape(s) |
|------------|---------------------------|

##### Inductance

| Nominal Inductance |
|--------------------|
| 0.15 µH/ft         |

## Impedance

### Nominal Characteristic Impedance

29 Ohm

## Delay

### Nominal Delay

1.47 ns/ft

### Nominal Velocity of Propagation (VP) [%]

62 %

## Current

### Max. Recommended Current [A]

5 Amps per conductor @ 25°C

## Voltage

### UL Voltage Rating

300V RMS

## Temperature Range

UL Temp Rating: 75°C

Operating Temp Range: 0°C To +75°C

## Mechanical Characteristics

Bulk Cable Weight: 19.5 lbs/1000ft

Max Recommended Pulling Tension: 57 lbs

Min Bend Radius/Minor Axis: 1.6 in

## Standards

NEC Articles: 800

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

## Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2003/96/EC (BFR): Yes

EU Directive 2011/65/EU (ROHS II): Yes

EU Directive 2012/19/EU (WEEE): Yes

EU Directive Compliance: EU Directive 2003/11/EC (BFR)

EU CE Mark: Yes

EU RoHS Compliance Date (yyyy-mm-dd): 2005-04-01

CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

## Flammability, LSOH, Toxicity Testing

C(UL) Flammability: FT6

UL Flammability: NFPA 262

UL Voltage Rating: 300 V RMS

## Plenum/Non-Plenum

Plenum (Y/N): Yes

## Part Number

### Variants

| Item #          | Color   | Footnote |
|-----------------|---------|----------|
| 6300FC 8771000  | NATURAL | C        |
| 6300FC 877U1000 | NATURAL |          |

Footnote: C - CRATE REEL PUT-UP.

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