

## 6547FE Multi-Conductor - Commercial Applications



For more Information  
please call

1-800-Belden1

**General Description:**

Security & Alarm Cable, Plenum-CMP, 9-22 AWG stranded bare copper pairs 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:

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 9       | 22  | 7x30      | BC - Bare Copper   |

Total Number of Conductors: 18

**Insulation**

Insulation Material:

| Insulation Trade Name | Insulation Material                   | Wall Thickness (in.) |
|-----------------------|---------------------------------------|----------------------|
| Flamarrest®           | LS PVC - Low Smoke Polyvinyl Chloride | 0.009                |

**Outer Shield**

Outer Shield Material:

| Outer Shield Trade Name | Type | Outer Shield Material        | Coverage (%) |
|-------------------------|------|------------------------------|--------------|
| Beldfoil®               | Tape | Aluminum Foil-Polyester Tape | 100          |

Outer Shield Drain Wire AWG:

| AWG | Stranding | Drain Wire Conductor Material |
|-----|-----------|-------------------------------|
| 24  | (7x32)    | TC - Tinned Copper            |

**Outer Jacket**

Outer Jacket Material:

| Outer Jacket Trade Name | Outer Jacket Material                 | Nom. Wall Thickness (in.) |
|-------------------------|---------------------------------------|---------------------------|
| Flamarrest®             | LS PVC - Low Smoke Polyvinyl Chloride | 0.017                     |

Outer Jacket Ripcord: Yes

**Overall Cable**

Overall Nominal Diameter: 0.321 in.

**Pair**

Pair Color Code Chart:

| Number | Color          |
|--------|----------------|
| 1      | Black & Red    |
| 2      | Black & White  |
| 3      | Black & Green  |
| 4      | Black & Blue   |
| 5      | Black & Yellow |
| 6      | Black & Brown  |
| 7      | Black & Orange |
| 8      | Red & White    |
| 9      | Red & Green    |

**Mechanical Characteristics (Overall)**

|                                   |                     |
|-----------------------------------|---------------------|
| Operating Temperature Range:      | 0°C To +75°C        |
| UL Temperature Rating:            | 75°C                |
| Bulk Cable Weight:                | 67.200 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 169.300 lbs.        |
| Min. Bend Radius/Minor Axis:      | 3.250 in.           |

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## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; 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      |

## Plenum/Non-Plenum

|               |     |
|---------------|-----|
| Plenum (Y/N): | Yes |
|---------------|-----|

## Electrical Characteristics (Overall)

## Nom. Inductance:

Inductance (µH/ft)  
 .18

## Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)  
 33

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

Capacitance (pF/ft)  
 59.4

## Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)  
 16.3

## Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)  
 12.7

## Max. Operating Voltage - UL:

Voltage  
 300 V RMS

## Max. Recommended Current:

Current  
 1.4 Amps per conductor @ 25°C (10°C rise in temp)

## Put Ups and Colors:

| Item #         | Putup    | Ship Weight | Color   | Notes | Item Desc             |
|----------------|----------|-------------|---------|-------|-----------------------|
| 6547FE 8771000 | 1,000 FT | 73.000 LB   | NATURAL | C     | 9PR #22FLRST FS FLRST |

## Notes:

C = CRATE REEL PUT-UP.

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Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).

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