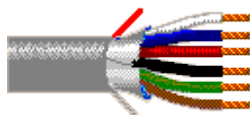


## 6504FE Multi-Conductor - Commercial Applications



For more Information  
please call

1-800-Belden1

**General Description:**

Security & Alarm Cable, Plenum-CMP, 6-22 AWG stranded bare copper conductors with Flamarrest® insulation, Beldfoil® shield and Flamarrest® jacket with ripcord

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

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 6            | 22  | 7         | BC - Bare Copper   |

Total Number of Conductors: 6

**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 | 100          |

**Outer Shield Drain Wire AWG:**

| AWG | Stranding | Drain Wire Conductor Material |
|-----|-----------|-------------------------------|
| 24  | Solid     | 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 Color Code Chart:**

| Color |
|-------|
| Black |
| Red   |
| White |
| Green |
| Brown |
| Blue  |

Overall Nominal Diameter: 4.445 mm

**Mechanical Characteristics (Overall)**

|                                   |                |
|-----------------------------------|----------------|
| Installation Temperature Range:   | 0°C To +75°C   |
| Operating Temperature Range:      | -10°C To +75°C |
| Bulk Cable Weight:                | 36.312 Kg/Km   |
| Max. Recommended Pulling Tension: | 267.337 N      |
| Min. Bend Radius/Minor Axis:      | 45.720 mm      |

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

|                                       |            |
|---------------------------------------|------------|
| NEC/(UL) Specification:               | CMP        |
| 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 |
| CSA Flame Test: | FT6      |

### Suitability

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

### Plenum/Non-Plenum

|                    |        |
|--------------------|--------|
| Plenum (Y/N):      | Yes    |
| Non-Plenum Number: | 5504FE |

## Electrical Characteristics (Overall)

### Nom. Capacitance Conductor to Conductor:

|                    |
|--------------------|
| Capacitance (pF/m) |
| 108.273            |

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

|                    |
|--------------------|
| Capacitance (pF/m) |
| 193.579            |

### Nom. Conductor DC Resistance:

|                     |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 53.1522             |

### Nominal Outer Shield DC Resistance:

|                     |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 50.1993             |

### Max. Operating Voltage - UL:

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

### Max. Recommended Current:

| Description          | Current                             |
|----------------------|-------------------------------------|
| 10C Temperature Rise | 2 Amps per conductor @ 25°C ambient |

## Put Ups and Colors:

| Item #          | Putup  | Ship Weight | Color   | Notes | Item Desc            |
|-----------------|--------|-------------|---------|-------|----------------------|
| 6504FE 004U1000 | 305 MT | 11.793 KG   | YELLOW  |       | 6 #22 FLRST FS FLRST |
| 6504FE 004I1000 | 305 MT | 11.793 KG   | YELLOW  |       | 6 #22 FLRST FS FLRST |
| 6504FE 007I1000 | 305 MT | 11.793 KG   | VIOLET  |       | 6 #22 FLRST FS FLRST |
| 6504FE 877C500  | 152 MT | 5.443 KG    | NATURAL |       | 6 #22 FLRST FS FLRST |

## METRIC MEASUREMENT VERSION

## 6504FE Multi-Conductor - Commercial Applications

|                 |        |           |         |   |                      |
|-----------------|--------|-----------|---------|---|----------------------|
| 6504FE 877U1000 | 305 MT | 11.793 KG | NATURAL |   | 6 #22 FLRST FS FLRST |
| 6504FE 877U250  | 76 MT  | 3.289 KG  | NATURAL |   | 6 #22 FLRST FS FLRST |
| 6504FE 877U500  | 152 MT | 6.124 KG  | NATURAL |   | 6 #22 FLRST FS FLRST |
| 6504FE 8771000  | 305 MT | 11.793 KG | NATURAL | C | 6 #22 FLRST FS FLRST |
| 6504FE 877500   | 152 MT | 6.124 KG  | NATURAL | C | 6 #22 FLRST FS FLRST |

**Notes:**

C = CRATE REEL PUT-UP.

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