



For more Information  
please call

1-800-Belden1



### General Description:

Security & Alarm Cable, Plenum-CMP, 2-22 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
2	22	7x30	BC - Bare Copper

Total Number of Conductors: 4

#### 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	(7x32)	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 Nominal Diameter: 5.156 mm

### Pair

##### Pair Color Code Chart:

Number	Color
1	Black & Red
2	Black & White

### Mechanical Characteristics (Overall)

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

UL Temperature Rating: 75°C

Bulk Cable Weight: 30.806 Kg/Km

Max. Recommended Pulling Tension: 186.380 N

Min. Bend Radius/Minor Axis: 50.800 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
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**Plenum/Non-Plenum**

Plenum (Y/N):	Yes
Non-Plenum Number:	5541FE

**Electrical Characteristics (Overall)**

**Nom. Inductance:**

<b>Inductance (µH/m)</b>
0.59058

**Nom. Capacitance Conductor to Conductor:**

<b>Capacitance (pF/m)</b>
108.273

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

<b>Capacitance (pF/m)</b>
194.891

**Nom. Conductor DC Resistance:**

<b>DCR @ 20°C (Ohm/km)</b>
53.4803

**Nominal Outer Shield DC Resistance:**

<b>DCR @ 20°C (Ohm/km)</b>
45.6059

**Max. Operating Voltage - UL:**

<b>Voltage</b>
300 V RMS

**Max. Recommended Current:**

<b>Current</b>
2.2 Amps per conductor @ 25°C (10°C rise in temp)

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
6541FE 877U1000	1,000 FT	22.000 LB	NATURAL		2 PR #22 FLRST FS FLRST
6541FE 877U500	500 FT	11.500 LB	NATURAL		2 PR #22 FLRST FS FLRST
6541FE 8771000	1,000 FT	23.000 LB	NATURAL	C	2 PR #22 FLRST FS FLRST

**Notes:**

C = CRATE REEL PUT-UP.

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## 6541FE Multi-Conductor - Commercial Applications

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