

## 6502FE Multi-Conductor - Commercial Applications



For more Information  
please call

1-800-Belden1



### General Description:

Security & Alarm Cable, Plenum-CMP, 4-22 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
4	22	7	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)	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

Overall Nominal Diameter: 3.734 mm

### Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 25.299 Kg/Km

Max. Recommended Pulling Tension: 186.824 N

Min. Bend Radius/Minor Axis: 38.100 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
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### Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	5502FE

## 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	2.2 Amps per conductor @ 25°C ambient

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
6502FE 007U1000	1,000 FT	19.000 LB	VIOLET		4 #22 FLRST FS FLRST
6502FE 007I1000	1,000 FT	19.000 LB	VIOLET		4 #22 FLRST FS FLRST
6502FE 009U250	250 FT	5.250 LB	WHITE		4 #22 FLRST FS FLRST
6502FE 009Z1000	1,000 FT	22.000 LB	WHITE		4 #22 FLRST FS FLRST

## METRIC MEASUREMENT VERSION

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6502FE 010U1000	1,000 FT	19.000 LB	BLACK		4 #22 FLRST FS FLRST
6502FE 010Z1000	1,000 FT	21.000 LB	BLACK		4 #22 FLRST FS FLRST
6502FE 010I1000	1,000 FT	19.000 LB	BLACK		4 #22 FLRST FS FLRST
6502FE 877U1000	1,000 FT	19.000 LB	NATURAL		4 #22 FLRST FS FLRST
6502FE 877Z1000	1,000 FT	21.000 LB	NATURAL		4 #22 FLRST FS FLRST
6502FE 877I1000	1,000 FT	19.000 LB	NATURAL	C	4 #22 FLRST FS FLRST
6502FE 877500	500 FT	9.500 LB	NATURAL		4 #22 FLRST FS FLRST

**Notes:**

C = CRATE REEL PUT-UP.

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