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1-800-Belden1



### General Description:

Security & Alarm Cable, Plenum-CMP, 12-18 AWG stranded bare copper conductors 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:

# Conductors	AWG	Stranding	Conductor Material
12	18	7x26	BC - Bare Copper

Total Number of Conductors: 12

#### Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (in.)
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride	0.010

#### Outer Shield

Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100.000

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 Cabling Color Code Chart:

Number	Color
1	Black
2	Red
3	White
4	Green
5	Brown
6	Blue
7	Orange
8	Yellow
9	Purple
10	Gray
11	Pink
12	Tan

Overall Nominal Diameter: 0.312 in.

### Mechanical Characteristics (Overall)

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

UL Temperature Rating: 75°C

Bulk Cable Weight: 91.100 lbs/1000 ft.

Max. Recommended Pulling Tension: 282.800 lbs.

Min. Bend Radius/Minor Axis: 3.125 in.

### 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
Plenum Number:	5309FE

### Electrical Characteristics (Overall)

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)  
42

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

Capacitance (pF/ft)  
76

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)  
6.5

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)  
13.100

#### Max. Operating Voltage - UL:

Voltage  
300 V RMS

#### Max. Recommended Current:

Description	Current
10C Temperature Rise	3.5 Amps per conductor @ 25°C ambient

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
6309FE 8771000	1,000 FT	99.000 LB	NATURAL	C	12 #18 FLRST FS FLRST
6309FE 877500	500 FT	50.500 LB	NATURAL		12 #18 FLRST FS FLRST

#### Notes:

C = CRATE REEL PUT-UP.

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## 6309FE Multi-Conductor - Commercial Applications

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