

## 6545FE Multi-Conductor - Commercial Applications



For more Information  
please call

1-800-Belden1



### Description:

22 AWG bare copper conductors, Flamarrest® insulation, twisted into pairs, multiple pairs cabled together, overall Beldfoil® shield tape (foil side out) w/drain wire, Flamarrest® jacket with ripcord. Sequential footage marking every two feet.

### 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
6	22	7x30	BC - Bare Copper

#### 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	.015

**Outer Jacket Ripcord:** Yes

### Overall Cable

**Overall Nominal Diameter:** 0.268 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

### Mechanical Characteristics (Overall)

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

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UL Temperature Rating:	75°C
Bulk Cable Weight:	46.100 lbs/1000 ft.
Max. Recommended Pulling Tension:	114.700 lbs.
Min. Bend Radius (Install)/Minor Axis:	2.700 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMP
NEC Articles:	800
CEC/C(UL) Specification:	CMP
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
Non-Plenum Number:	5545FE

### Electrical Characteristics (Overall)

#### Nom. Inductance:

Inductance (µH/ft)

.18

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

33

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

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

### Related Documents:

## 6545FE Multi-Conductor - Commercial Applications

No related documents are available for this product

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
6545FE 877U1000	1,000 FT	48.000 LB	NATURAL		6 PR #22 FLRST FS FLRST
6545FE 8771000	1,000 FT	50.000 LB	NATURAL	C	6 PR #22 FLRST FS FLRST

**Notes:**

C = CRATE REEL PUT-UP.

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