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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
2	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:** 0.203 in.

#### 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:** 20.700 lbs/1000 ft.

**Max. Recommended Pulling Tension:** 41.900 lbs.

Min. Bend Radius (Install)/Minor Axis:	2 in.
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### 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:	5541FE

### 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)
13.9

#### Max. Operating Voltage - UL:

Voltage
300 V RMS

#### Max. Recommended Current:

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

### Related Documents:

No related documents are available for this product

### Put Ups and Colors:

## 6541FE Multi-Conductor - Commercial Applications

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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