



For more Information
please call

1-800-Belden1



General Description:

Security & Alarm Cable, Plenum-CMP, 2-20 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	20	7x28	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	Solid	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: 5.791 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: 40.181 Kg/Km

Max. Recommended Pulling Tension: 264.668 N

Min. Bend Radius/Minor Axis: 57.150 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

METRIC MEASUREMENT VERSION

6441FE Multi-Conductor - Commercial Applications

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:	5441FE

Electrical Characteristics (Overall)

Nom. Inductance:

Inductance ($\mu\text{H/m}$)
0.52496

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
118.116

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)
212.609

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
34.1224

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
49.871

Max. Operating Voltage - UL:

Voltage
300 V RMS

Max. Recommended Current:

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

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
6441FE 8771000	1,000 FT	32.000 LB	NATURAL		2 PR #20 FLRST FS FLRST

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