

Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



6405FE Multi-Conductor - Commercial Applications



For more Information
please call

1-800-Belden1



General Description:

Security & Alarm Cable, Plenum-CMP, 7-20 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
7	20	7	BC - Bare Copper

Total Number of Conductors:

7

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
20	(7x28)	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 Cabling Color Code Chart:

Color
Black
Red
White
Green
Brown
Blue
Orange

Overall Nominal Diameter:

0.196 in.

Mechanical Characteristics (Overall)

Operating Temperature Range:	0°C To +75°C
Bulk Cable Weight:	38 lbs/1000 ft.
Max. Recommended Pulling Tension:	97.300 lbs.
Min. Bend Radius/Minor Axis:	2 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMP
CEC/(UL) Specification:	CMP
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes

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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

Plenum/Non-Plenum

Plenum (Y/N): Yes

Non-Plenum Number: 5405FE

Electrical Characteristics (Overall)

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

36

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

64.8

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

10.2

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

15.200

Max. Operating Voltage - UL:

Voltage

300 V RMS

Max. Recommended Current:

Current

2.6 Amps per conductor @ 25°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
6405FE 8771000	1,000 FT	41.000 LB	NATURAL	C	7 #20 FLRST FS FLRST

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 01-19-2015

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