

METRIC MEASUREMENT VERSION

## 5402FE Multi-Conductor - Commercial Applications

For more Information  
please call

1-800-Belden1



### General Description:

Security & Alarm Cable, Riser-CMR, 4-20 AWG stranded bare copper conductors with polyolefin insulation, Beldfoil® shield and PVC jacket with ripcord

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
4	20	7x28	BC - Bare Copper

Total Number of Conductors: 4

#### Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)
PP - Polypropylene	0.203

#### Outer Shield

Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape w/Shorting Fold	100

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
24	7x32	TC - Tinned Copper

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.432

Outer Jacket Ripcord: Yes

#### Overall Cable

Overall Cabling Color Code Chart:

Color
Black
Red
White
Green

Overall Nominal Diameter: 4.140 mm

### Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +75°C

UL Temperature Rating: 75°C

Bulk Cable Weight: 32.740 Kg/Km

Max. Recommended Pulling Tension: 264.668 N

Min. Bend Radius/Minor Axis: 44.450 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMR
NEC Articles:	800
CEC/C(UL) Specification:	CMG
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:	UL1666 Vertical Shaft
CSA Flame Test:	FT4

#### Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	6402FE

### Surface Printing (Overall)

Surface Printing:	NEW GENERATION(R) BY BELDEN 5402FE CMR 75C 4C20 SHIELDED (UL) E108998 OR C(UL) CMG ---- FT4 (SEQUENTIAL NUMBER) FEET
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### Electrical Characteristics (Overall)

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)	81.205
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#### Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)	146.005
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#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)	33.4662
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#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)	37.0753
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#### Max. Operating Voltage - UL:

Voltage	300 V RMS
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#### Max. Recommended Current:

Current	3 Amps per conductor @ 25°C (10°C rise in temp)
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### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
5402FE 008U1000	1,000 FT	24.000 LB	GRAY		4 #20 PP FS FRPVC

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5402FE 008U500	500 FT	12.000 LB	GRAY		4 #20 PP FS FRPVC
5402FE 008Z1000	1,000 FT	26.000 LB	GRAY		4 #20 PP FS FRPVC
5402FE 0081000	1,000 FT	23.000 LB	GRAY	C	4 #20 PP FS FRPVC
5402FE 008500	500 FT	11.500 LB	GRAY		4 #20 PP FS FRPVC

**Notes:**

C = CRATE REEL PUT-UP.

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