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please call

1-800-Belden1



**Picture  
Not Available**

### General Description:

Security & Alarm Cable, Riser-CMR, 7-20 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 |
|--------------|-----|-----------|--------------------|
| 7            | 20  | 7x28      | BC - Bare Copper   |

Total Number of Conductors: 7

#### Insulation

Insulation Material:

| Insulation Material | Wall Thickness (mm) |
|---------------------|---------------------|
| PP - Polypropylene  | 0.178               |

#### 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  | Solid     | TC - Tinned Copper            |

#### Outer Jacket

Outer Jacket Material:

| Outer Jacket Material    | Nom. Wall Thickness (mm) |
|--------------------------|--------------------------|
| PVC - Polyvinyl Chloride | 0.457                    |

Outer Jacket Ripcord: Yes

#### Overall Cable

Overall Cabling Lay Length & Direction:

| Length (mm) |
|-------------|
| 76.200      |

Overall Cabling Color Code Chart:

| Color  |
|--------|
| Black  |
| Red    |
| White  |
| Green  |
| Brown  |
| Blue   |
| Orange |

Overall Nominal Diameter: 4.801 mm

### Mechanical Characteristics (Overall)

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

## 5405FE Multi-Conductor - Commercial Applications

|                                   |              |
|-----------------------------------|--------------|
| UL Temperature Rating:            | 75°C         |
| Bulk Cable Weight:                | 50.599 Kg/Km |
| Max. Recommended Pulling Tension: | 432.810 N    |
| Min. Bend Radius/Minor Axis:      | 47.625 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 |
|---------------|----|

### Surface Printing (Overall)

|                   |   |
|-------------------|---|
| Surface Printing: | NEW GENERATION(R) BY BELDEN-M 5405FE CMR 75C 7C20 SHIELDED (UL) E108998 OR C(UL) CMG (2 FT., 7 DIGIT SEQUENTIAL) FEET |
|-------------------|---|

### Electrical Characteristics (Overall)

#### Nom. Capacitance Conductor to Conductor:

|                    |
|--------------------|
| Capacitance (pF/m) |
| 85.306             |

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

|                    |
|--------------------|
| Capacitance (pF/m) |
| 153.387            |

#### Nom. Conductor DC Resistance:

|                     |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 33.4662             |

#### Nominal Outer Shield DC Resistance:

|                     |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 34.4505             |

#### Max. Operating Voltage - UL:

|           |
|-----------|
| Voltage   |
| 300 V RMS |

#### Max. Recommended Current:

|   |
|---|
| Current   |
| 2.6 Amps per conductor @ 25°C (10°C rise in temp) |

### Put Ups and Colors:

| Item #          | Putup    | Ship Weight | Color | Notes | Item Desc         |
|-----------------|----------|-------------|-------|-------|-------------------|
| 5405FE 008U1000 | 1,000 FT | 36.000 LB   | GRAY  |       | 7 #20 PP FS FRPVC |
| 5405FE 008Z1000 | 1,000 FT | 39.000 LB   | GRAY  |       | 7 #20 PP FS FRPVC |
| 5405FE 0081000  | 1,000 FT | 37.000 LB   | GRAY  | C     | 7 #20 PP FS FRPVC |

**Notes:**

C = CRATE REEL PUT-UP.

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