

## 8761 Multi-Conductor - Single-Pair Cable



For more Information  
please call

1-800-Belden1

**General Description:**

22 AWG stranded (7x30) TC conductors, polyethylene insulation, twisted pair, overall Beldfoil® shield (100% coverage), 22 AWG stranded TC drain wire, PVC jacket.

**Physical Characteristics (Overall)****Conductor****AWG:**

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 1       | 22  | 7x30      | TC - Tinned Copper |

Total Number of Conductors: 2

**Insulation****Insulation Material:**

| Insulation Material | Wall Thickness (mm) |
|---------------------|---------------------|
| PE - Polyethylene   | 0.432               |

**Outer Shield****Outer Shield Material:**

| Outer Shield Trade Name | Type | Outer Shield Material                        | Coverage (%) |
|-------------------------|------|----------------------------------------------|--------------|
| Beldfoil®               | Tape | Aluminum Foil-Polyester Tape w/shorting fold | 100.000      |

**Outer Shield Drain Wire AWG:**

| AWG | Stranding | Drain Wire Conductor Material |
|-----|-----------|-------------------------------|
| 22  | Stranded  | TC - Tinned Copper            |

**Outer Jacket****Outer Jacket Material:**

| Outer Jacket Material    | Nom. Wall Thickness (mm) |
|--------------------------|--------------------------|
| PVC - Polyvinyl Chloride | 0.635                    |

**Overall Cable****Overall Cabling Lay Length & Direction:**

| Length (mm) | Direction | Twists (twist/m) |
|-------------|-----------|------------------|
| 50.800      | Left Hand | 19.686           |

Overall Nominal Diameter: 4.445 mm

**Pair****Pair Color Code Chart:**

| Number | Color         |
|--------|---------------|
| 1      | Black & Clear |

**Mechanical Characteristics (Overall)**

|                                   |                          |
|-----------------------------------|--------------------------|
| Operating Temperature Range:      | -20°C To +60°C           |
| UL Temperature Rating:            | 60°C (UL AWM Style 2092) |
| Bulk Cable Weight:                | 23.811 Kg/Km             |
| Max. Recommended Pulling Tension: | 120.101 N                |
| Min. Bend Radius/Minor Axis:      | 44.450 mm                |

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

|                                       |                            |
|---------------------------------------|----------------------------|
| NEC/(UL) Specification:               | CM                         |
| NEC Articles:                         | 800                        |
| CEC/C(UL) Specification:              | CM                         |
| AWM Specification:                    | UL Style 2092 (300 V 60°C) |
| 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): | 01/01/2004                 |
| 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:  | UL1685 UL Loading |
| CSA Flame Test: | FT1               |

### Suitability

|                       |     |
|-----------------------|-----|
| Suitability - Indoor: | Yes |
|-----------------------|-----|

### Plenum/Non-Plenum

|                |                     |
|----------------|---------------------|
| Plenum (Y/N):  | No                  |
| Plenum Number: | 88761, 87761, 82761 |

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)

64

### Nom. Inductance:

Inductance (μH/m)

0.6562

### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

78.744

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

Capacitance (pF/m)

154.207

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

52.496

### Max. Operating Voltage - UL:

Voltage

300 V RMS (UL AWM Style 2092)

### Max. Recommended Current:

| Description          | Current                               |
|----------------------|---------------------------------------|
| 10C temperature rise | 2.9 Amps per conductor @ 25°C ambient |

## 8761 Multi-Conductor - Single-Pair Cable

## Put Ups and Colors:

| Item #        | Putup    | Ship Weight | Color  | Notes | Item Desc       |
|---------------|----------|-------------|--------|-------|-----------------|
| 8761 060U1000 | 305 MT   | 7.711 KG    | CHROME |       | 2 #22 PE FS PVC |
| 8761 060U500  | 152 MT   | 4.082 KG    | CHROME |       | 2 #22 PE FS PVC |
| 8761 0601000  | 305 MT   | 8.165 KG    | CHROME | C     | 2 #22 PE FS PVC |
| 8761 06010000 | 3,048 MT | 77.111 KG   | CHROME | C Y   | 2 #22 PE FS PVC |
| 8761 06010001 | 3,048 MT | 77.111 KG   | CHROME | C Z   | 2 #22 PE FS PVC |
| 8761 06015000 | 4,572 MT | 122.471 KG  | CHROME | C Y   | 2 #22 PE FS PVC |
| 8761 0602000  | 610 MT   | 16.329 KG   | CHROME |       | 2 #22 PE FS PVC |
| 8761 060500   | 152 MT   | 4.082 KG    | CHROME |       | 2 #22 PE FS PVC |
| 8761 0605000  | 1,524 MT | 40.824 KG   | CHROME | C     | 2 #22 PE FS PVC |

**Notes:**

C = CRATE REEL PUT-UP.

Y = FINAL PUT-UP LENGTH MAY VARY -10% TO +20% FROM LENGTH SHOWN.MAY CONTAIN 2 PIECES. MINIMUM LENGTH OF ANY ONE PIECE IS 1500'.

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

Revision Number: 2    Revision Date: 08-02-2013

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