

## 88761 Multi-Conductor - Single-Pair Cable

For more Information  
please call

1-800-Belden1



### General Description:

22 AWG stranded (7x30) TC conductors, plenum, FEP insulation, twisted pair, overall Beldfoil® shield (100% coverage), 22 AWG stranded TC drain wire, FEP 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) |
|--------------------------------------|---------------------|
| FEP - Fluorinated Ethylene Propylene | 0.178               |

#### 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 |
|-----|-----------|-------------------------------|
| 22  | Stranded  | TC - Tinned Copper            |

#### Outer Jacket

Outer Jacket Material:

| Outer Jacket Material                | Nom. Wall Thickness (mm) |
|--------------------------------------|--------------------------|
| FEP - Fluorinated Ethylene Propylene | 0.356                    |

#### Overall Cable

Overall Cabling Lay Length & Direction:

| Length (mm) | Direction | Twists (twist/m) |
|-------------|-----------|------------------|
| 38.100      | Left Hand | 26.248           |

Overall Nominal Diameter: 2.946 mm

#### Pair

Pair Color Code Chart:

| Number | Color       |
|--------|-------------|
| 1      | Black & Red |

### Mechanical Characteristics (Overall)

Operating Temperature Range: -70°C To +200°C

Bulk Cable Weight: 19.347 Kg/Km

Max. Recommended Pulling Tension: 120.101 N

Min. Bend Radius/Minor Axis: 31.750 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        |
| 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 |
| CSA Flame Test: | FT6      |

### Suitability

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

### Plenum/Non-Plenum

|                    |      |
|--------------------|------|
| Plenum (Y/N):      | Yes  |
| Non-Plenum Number: | 8761 |

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)

42

### Nom. Inductance:

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

0.52496

### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

114.835

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

Capacitance (pF/m)

219.827

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

49.215

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

39.372

### Max. Operating Voltage - UL:

Voltage

300 V RMS

### Max. Recommended Current:

| Description          | Current                               |
|----------------------|---------------------------------------|
| 10C temperature rise | 2.8 Amps per conductor @ 25°C ambient |

### Notes (Overall)

**Notes:** For use in indoor plenum environments but also suitable for outdoor and underground applications. Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

### Put Ups and Colors:

| Item #         | Putup    | Ship Weight | Color | Notes | Item Desc        |
|----------------|----------|-------------|-------|-------|------------------|
| 88761 002U1000 | 1,000 FT | 15.000 LB   | RED   |       | 2 #22 FEP FS FEP |
| 88761 002100   | 100 FT   | 2.800 LB    | RED   | C     | 2#22 FEP FS FEP  |
| 88761 0021000  | 1,000 FT | 15.000 LB   | RED   | C     | 2#22 FEP FS FEP  |
| 88761 002500   | 500 FT   | 8.000 LB    | RED   | C     | 2#22 FEP FS FEP  |
| 88761 0025000  | 5,000 FT | 70.000 LB   | RED   |       | 2 #22 FEP FS FEP |

**Notes:**

C = CRATE REEL PUT-UP.

Revision Number: 3    Revision Date: 08-02-2013

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