

## 88760 Multi-Conductor - Single-Pair Cable

For more Information  
please call

1-800-Belden1



### General Description:

18 AWG stranded (19x30) TC conductors, plenum, FEP insulation, twisted pair, overall Beldfoil® shield (100% coverage), 20 AWG stranded TC drain wire, FEP jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 1       | 18  | 19x30     | TC - Tinned Copper |

Total Number of Conductors: 2

#### Insulation

##### Insulation Material:

| Insulation Material                  | Wall Thickness (mm) |
|--------------------------------------|---------------------|
| FEP - Fluorinated Ethylene Propylene | 0.1778              |

#### Outer Shield

##### Outer Shield Material:

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

##### Outer Shield Drain Wire AWG:

| AWG | Stranding | Drain Wire Conductor Material |
|-----|-----------|-------------------------------|
| 20  | 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 Nominal Diameter: 3.632 mm

#### Pair

##### Pair Color Code Chart:

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

##### Pair Lay Length & Direction:

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

### Mechanical Characteristics (Overall)

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

UL Temperature Rating: 60C

Bulk Cable Weight: 34.229 Kg/Km

Max. Recommended Pulling Tension: 284.685 N

Min. Bend Radius/Minor Axis: 38.100 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 |
| Suitability - Burial:  | Yes |
| Sunlight Resistance:   | Yes |
| Oil Resistance:        | Yes |

#### Plenum/Non-Plenum

|                    |      |
|--------------------|------|
| Plenum (Y/N):      | Yes  |
| Non-Plenum Number: | 8760 |

### Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

Impedance (Ohm)

29

#### Nom. Inductance:

Inductance ( $\mu$ H/m)

0.49215

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

167.331

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

Capacitance (pF/m)

318.257

#### Nominal Velocity of Propagation:

VP (%)

69

#### Nominal Delay:

Delay (ns/m)

4.82307

**Nom. Conductor DC Resistance:**

| DCR @ 20°C (Ohm/km) |
|---------------------|
| 18.0455             |

**Nominal Outer Shield DC Resistance:**

| DCR @ 20°C (Ohm/km) |
|---------------------|
| 23.9513             |

**Max. Operating Voltage - UL:**

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

**Max. Recommended Current:**

| Description          | Current                               |
|----------------------|---------------------------------------|
| 10C temperature rise | 5.4 Amps per conductor @ 25°C ambient |

### Notes (Overall)

**Notes:** For use in indoor plenum environments but also suitable for outdoor and underground applications. Gas/vapor-tight jacket.

### Put Ups and Colors:

| Item #         | Putup     | Ship Weight | Color | Notes | Item Desc        |
|----------------|-----------|-------------|-------|-------|------------------|
| 88760 002U1000 | 1,000 FT  | 25.000 LB   | RED   |       | 2 #18 FEP SH FEP |
| 88760 002U500  | 500 FT    | 13.000 LB   | RED   |       | 2 #18 FEP SH FEP |
| 88760 002100   | 100 FT    | 3.800 LB    | RED   |       | 2 #18 FEP SH FEP |
| 88760 0021000  | 1,000 FT  | 24.000 LB   | RED   | C     | 2 #18 FEP SH FEP |
| 88760 00210000 | 10,000 FT | 240.000 LB  | RED   | C Z   | 2 #18 FEP SH FEP |
| 88760 00220000 | 20,000 FT | 500.000 LB  | RED   | C Y   | 2 #18 FEP SH FEP |
| 88760 002500   | 500 FT    | 13.000 LB   | RED   | C     | 2 #18 FEP SH FEP |
| 88760 0025000  | 5,000 FT  | 120.000 LB  | RED   |       | 2 #18 FEP SH FEP |

**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.

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