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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, Flamarrest® 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 Trade Name | Outer Jacket Material                 | Nom. Wall Thickness (mm) |
|-------------------------|---------------------------------------|--------------------------|
| Flamarrest®             | LS PVC - Low Smoke Polyvinyl Chloride | 0.3556                   |

#### Overall Cable

Overall Nominal Diameter: 3.708 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:      | -20°C To +75°C |
| Bulk Cable Weight:                | 29.764 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 |
|-----------------------|-----|

**Plenum/Non-Plenum**

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

**Electrical Characteristics (Overall)**

**Nom. Characteristic Impedance:**

|                        |
|------------------------|
| <b>Impedance (Ohm)</b> |
| 35                     |

**Nom. Inductance:**

|                          |
|--------------------------|
| <b>Inductance (µH/m)</b> |
| 0.49215                  |

**Nom. Capacitance Conductor to Conductor:**

|                           |
|---------------------------|
| <b>Capacitance (pF/m)</b> |
| 167.331                   |

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

|                           |
|---------------------------|
| <b>Capacitance (pF/m)</b> |
| 318.257                   |

**Nominal Velocity of Propagation:**

|               |
|---------------|
| <b>VP (%)</b> |
| 69            |

**Nominal Delay:**

|                     |
|---------------------|
| <b>Delay (ns/m)</b> |
| 4.82307             |

**Nom. Conductor DC Resistance:**

|                            |
|----------------------------|
| <b>DCR @ 20°C (Ohm/km)</b> |
| 18.046                     |

**Nominal Outer Shield DC Resistance:**

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

**Max. Operating Voltage - UL:**

|                |
|----------------|
| <b>Voltage</b> |
| 300 V RMS      |

**Max. Recommended Current:**

| Description          | Current                               |
|----------------------|---------------------------------------|
| 10C Temperature Rise | 5.4 Amps per conductor @ 25°C ambient |

**Put Ups and Colors:**

| Item #         | Putup    | Ship Weight | Color   | Notes | Item Desc              |
|----------------|----------|-------------|---------|-------|------------------------|
| 82760 877U1000 | 1,000 FT | 21.000 LB   | NATURAL |       | 1 PR #18 FEP FS FLMRST |
| 82760 877U500  | 500 FT   | 11.000 LB   | NATURAL |       | 1 PR #18 FEP FS FLMRST |
| 82760 8771000  | 1,000 FT | 22.000 LB   | NATURAL | C     | 1 PR #18 FEP FS FLMRST |
| 82760 8775000  | 5,000 FT | 105.000 LB  | NATURAL |       | 1 PR #18 FEP FS FLMRST |

**Notes:**

C = CRATE REEL PUT-UP.

Revision Number: 5    Revision Date: 08-05-2013

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