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1-800-Belden1



### General Description:

22 AWG stranded (7x30) TC conductors, polypropylene insulation, twisted pairs, individually shielded w/Beldfoil® (100% coverage), overall PVC jacket and 22 AWG stranded TC drain wire.

### Physical Characteristics (Overall)

#### Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (mm) |
|---------|-----|-----------|--------------------|-----------|
| 15      | 22  | 7x30      | TC - Tinned Copper | 0.762     |

Total Number of Conductors: 30

#### Insulation

Insulation Material:

| Insulation Material | Wall Thickness (mm) |
|---------------------|---------------------|
| PP - Polypropylene  | 0.279               |

#### Inner Shield

Inner Shield Material:

| Inner Shield Trade Name | Type | Inner Shield Material        | Coverage (%) |
|-------------------------|------|------------------------------|--------------|
| Beldfoil® (Z-Fold®)     | Tape | Aluminum Foil-Polyester Tape | 100          |

Inner Shield Drain Wire AWG:

| AWG |
|-----|
| 22  |

Inner Shield Drain Wire Stranding: Stranded

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

#### Outer Shield

Outer Shield Material:

| Outer Shield Material |
|-----------------------|
| Unshielded            |

#### Outer Jacket

Outer Jacket Material:

| Outer Jacket Material    | Nom. Wall Thickness (mm) |
|--------------------------|--------------------------|
| PVC - Polyvinyl Chloride | 1.321                    |

#### Overall Cable

Overall Nominal Diameter: 13.919 mm

#### Pair

Pair Color Code Chart:

| Number | Color          |
|--------|----------------|
| 1      | Black & Red    |
| 2      | Black & White  |
| 3      | Black & Green  |
| 4      | Black & Blue   |
| 5      | Black & Yellow |
| 6      | Black & Brown  |
| 7      | Black & Orange |
| 8      | Red & White    |
| 9      | Red & Green    |
| 10     | Red & Blue     |
| 11     | Red & Yellow   |
| 12     | Red & Brown    |
| 13     | Red & Orange   |
| 14     | Green & White  |
| 15     | Green & Blue   |

## Mechanical Characteristics (Overall)

|                                   |                          |
|-----------------------------------|--------------------------|
| Operating Temperature Range:      | -20°C To +80°C           |
| UL Temperature Rating:            | 80°C (UL AWM Style 2919) |
| Bulk Cable Weight:                | 250.018 Kg/Km            |
| Max. Recommended Pulling Tension: | 1556.870 N               |
| Min. Bend Radius/Minor Axis:      | 139.700 mm               |

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

|                                       |                           |
|---------------------------------------|---------------------------|
| NEC/(UL) Specification:               | CM                        |
| CEC/C(UL) Specification:              | CM                        |
| AWM Specification:                    | UL Style 2919 (30 V 80°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                       |
| MIL Order #39 (China RoHS):           | Yes                       |

### Flame Test

|                |                   |
|----------------|-------------------|
| UL Flame Test: | UL1685 UL Loading |
|----------------|-------------------|

### Plenum/Non-Plenum

|               |    |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

**Impedance (Ohm)**  
50

### Nom. Inductance:

**Inductance (µH/m)**  
0.59058

### Nom. Capacitance Conductor to Conductor:

**Capacitance (pF/m)**  
98.43

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

**Capacitance (pF/m)**  
180.455

### Nominal Velocity of Propagation:

**VP (%)**  
66

### Nom. Conductor DC Resistance:

**DCR @ 20°C (Ohm/km)**  
49.215

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 34.779 Ohm/km

### Max. Operating Voltage - UL:

**Voltage**  
30 V RMS (UL AWM Style 2919)  
300 V RMS (CM)

### Max. Recommended Current:

**Current**  
1.4 Amps per conductor @25°C

## Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------|-------|-------------|-------|-------|-----------|
|--------|-------|-------------|-------|-------|-----------|

## METRIC MEASUREMENT VERSION

## 8776 Multi-Conductor - CM Rated Cable

|              |          |            |        |   |                     |
|--------------|----------|------------|--------|---|---------------------|
| 8776 060100  | 100 FT   | 18.800 LB  | CHROME | C | 15 FS PR #22 PP PVC |
| 8776 0601000 | 1,000 FT | 187.000 LB | CHROME | C | 15 FS PR #22 PP PVC |
| 8776 060500  | 500 FT   | 93.000 LB  | CHROME | C | 15 FS PR #22 PP PVC |

**Notes:**

C = CRATE REEL PUT-UP.

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