

## 9769 Multi-Conductor - CM Rated Cable

For more Information  
please call

1-800-Belden1



### Description:

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

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (in.) |
|---------|-----|-----------|--------------------|------------|
| 17      | 22  | 7x30      | TC - Tinned Copper | .030       |

Total Number of Conductors: 34

#### Insulation

##### Insulation Material:

| Insulation Material | Wall Thickness (in.) |
|---------------------|----------------------|
| PP - Polypropylene  | 0.011                |

#### 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 (in.) |
|--------------------------|---------------------------|
| PVC - Polyvinyl Chloride | 0.052                     |

#### Overall Cable

Overall Nominal Diameter: 0.577 in.

#### 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   |
| 16 | Green & Yellow |
| 17 | Green & Brown  |

## Mechanical Characteristics (Overall)

**Operating Temperature Range:** -20°C To +80°C

**UL Temperature Rating:** 80°C (UL AWM Style 2919)

**Bulk Cable Weight:** 199.900 lbs/1000 ft.

**Max. Recommended Pulling Tension:** 520 lbs.

**Min. Bend Radius/Minor Axis:** 5.900 in.

## 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 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

### Plenum/Non-Plenum

**Plenum (Y/N):** No

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

**Impedance (Ohm)**

50

### Nom. Inductance:

**Inductance (µH/ft)**

0.18

### Nom. Capacitance Conductor to Conductor:

**Capacitance (pF/ft)**

30

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

**Capacitance (pF/ft)**

55

### Nominal Velocity of Propagation:

**VP (%)**

66

**Nom. Conductor DC Resistance:**

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 15                       |

**Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C:** 10.600 Ohm/1000 ft

**Max. Operating Voltage - UL:**

| Voltage   | Description       |
|-----------|-------------------|
| 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             |
|--------------|----------|-------------|--------|-------|-----------------------|
| 9769 060100  | 100 FT   | 20.800 LB   | CHROME | C     | 17 FS PR #22 HDPE PVC |
| 9769 0601000 | 1,000 FT | 203.000 LB  | CHROME | C     | 17 FS PR #22 HDPE PVC |
| 9769 060500  | 500 FT   | 103.000 LB  | CHROME | C     | 17 FS PR #22 HDPE PVC |

**Notes:**

C = CRATE REEL PUT-UP.

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#### Как с нами связаться

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