

## 9768 Multi-Conductor - CM Rated Cable

For more Information  
please call

1-800-Belden1



### Description:

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

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (in.) |
|---------|-----|-----------|--------------------|------------|
| 12      | 22  | 7x30      | TC - Tinned Copper | .030       |

#### Insulation

##### Insulation Material:

| Insulation Material | Dia. (in.) |
|---------------------|------------|
| PP - Polypropylene  | .050       |

#### 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    |
|--------------------------|
| PVC - Polyvinyl Chloride |

#### Overall Cabling

Overall Nominal Diameter: 0.464 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  |

**Pair Lay Length & Direction:**

| Lay Length (in.) | Twists/ft. (twist/ft) |
|------------------|-----------------------|
| 1.750            | 6.850                 |

## Mechanical Characteristics (Overall)

|   |                          |
|---|--------------------------|
| <b>Operating Temperature Range:</b>           | -20°C To +80°C           |
| <b>UL Temperature Rating:</b>                 | 80°C (UL AWM Style 2919) |
| <b>Bulk Cable Weight:</b>                     | 136.200 lbs/1000 ft.     |
| <b>Max. Recommended Pulling Tension:</b>      | 320 lbs.                 |
| <b>Min. Bend Radius (Install)/Minor Axis:</b> | 4.600 in.                |

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

|  |                           |
|--|---------------------------|
| <b>NEC/(UL) Specification:</b>               | CM                        |
| <b>CEC/C(UL) Specification:</b>              | CM                        |
| <b>AWM Specification:</b>                    | UL Style 2919 (30 V 80°C) |
| <b>EU CE Mark:</b>                           | Yes                       |
| <b>EU Directive 2000/53/EC (ELV):</b>        | Yes                       |
| <b>EU Directive 2002/95/EC (RoHS):</b>       | Yes                       |
| <b>EU RoHS Compliance Date (mm/dd/yyyy):</b> | 01/01/2004                |
| <b>EU Directive 2002/96/EC (WEEE):</b>       | Yes                       |
| <b>EU Directive 2003/11/EC (BFR):</b>        | Yes                       |
| <b>CA Prop 65 (CJ for Wire &amp; Cable):</b> | Yes                       |
| <b>MII Order #39 (China RoHS):</b>           | Yes                       |

### Flame Test

|                       |                   |
|-----------------------|-------------------|
| <b>UL Flame Test:</b> | UL1685 UL Loading |
|-----------------------|-------------------|

### Plenum/Non-Plenum

|                      |    |
|----------------------|----|
| <b>Plenum (Y/N):</b> | No |
|----------------------|----|

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

|                        |
|------------------------|
| <b>Impedance (Ohm)</b> |
| 50                     |

### Nom. Capacitance Conductor to Conductor:

|                            |
|----------------------------|
| <b>Capacitance (pF/ft)</b> |
| 30                         |

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

|                            |
|----------------------------|
| <b>Capacitance (pF/ft)</b> |
| 55                         |

### Nominal Velocity of Propagation:

|               |
|---------------|
| <b>VP (%)</b> |
| 66            |

### Nom. Conductor DC Resistance:

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

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

**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 |

**Related Documents:**

No related documents are available for this product

**Put Ups and Colors:**

| Item #       | Putup    | Ship Weight | Color  | Notes | Item Desc             |
|--------------|----------|-------------|--------|-------|-----------------------|
| 9768 060100  | 100 FT   | 13.900 LB   | CHROME | C     | 12 FS PR #22 HDPE PVC |
| 9768 0601000 | 1,000 FT | 132.000 LB  | CHROME | C     | 12 FS PR #22 HDPE PVC |
| 9768 060250  | 250 FT   | 34.500 LB   | CHROME |       | 12 FS PR #22 HDPE PVC |
| 9768 060500  | 500 FT   | 69.500 LB   | CHROME | C     | 12 FS PR #22 HDPE PVC |

**Notes:**  
C = CRATE REEL PUT-UP.

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#### Как с нами связаться

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