

## 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
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### Plenum/Non-Plenum

<b>Plenum (Y/N):</b>	No
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## 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.

Revision Number: 1    Revision Date: 04-17-2008

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