

## 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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