# **Detailed Specifications & Technical Data**

# **ENGLISH MEASUREMENT VERSION**



# 8769 Multi-Conductor - CM Rated Cables



For more Information please call

1-800-Belden1



# **General 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

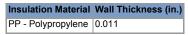
#### AWG:

# Pairs	AWG	Stranding	<b>Conductor Material</b>	Dia. (in.)
19	22	7x30	TC - Tinned Copper	.030

Total Number of Conductors: 38

# Insulation

# **Insulation Material:**



### **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:



Inner Shield Drain Wire Stranding: Stranded

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

# **Outer Jacket**

# **Outer Jacket Material:**

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	0.064

# **Overall Cable**

Overall Nominal Diameter: 0.601 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

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13	Red & Orange
14	Green & White
15	Green & Blue
16	Green & Yellow
17	Green & Brown
18	Green & Orange
19	White & Blue

Mechanical Characteristics (Overall)				
Operating Temperature Range:	-20°C To +80°C			
UL Temperature Rating:	80°C (UL AWM Style 2919)			
Bulk Cable Weight:	233 lbs/1000 ft.			
Max. Recommended Pulling Tension:	443 lbs.			
Min. Bend Radius/Minor Axis:	6.250 in.			
Applicable Specifications and Agency Cor	npliance (Overall)			
Applicable Standards & Environmental Progra	ms			
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			
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)

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

Nominal Velocity of Propagation:

**VP** (%)

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Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 15

Ind. Pair Nominal Shield DC Resistance @ 20

10.600 Ohm/1000 ft

Deg. C:

Max. Operating Voltage - UL:

Voltage	Description		
30 V RMS	UL AWM Style 2919		
300 V RMS	CM		

### Max. Recommended Current:

Current
1 Amp per conductor @ 25°C

# **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8769 060100	100 FT	25.300 LB	CHROME	С	19 FS PR #22 HDPE PVC
8769 0601000	1,000 FT	248.000 LB	CHROME	С	19 FS PR #22 HDPE PVC
8769 060500	500 FT	125.000 LB	CHROME	С	19 FS PR #22 HDPE PVC
8769 0605000	5,000 FT	1,175.000 LB	CHROME		19 FS PR #22 HDPE PVC

#### Notes:

C = CRATE REEL PUT-UP.

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