# **Detailed Specifications & Technical Data**

## **METRIC MEASUREMENT VERSION**





## 9769 Multi-Conductor - CM Rated Cable

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. (mm)
17	22	7x30	TC - Tinned Copper	0.762

Total Number of Conductors:

34

## Insulation

## **Insulation Material:**

# | Insulation Material | Wall Thickness (mm) | PP - Polypropylene | 0.279

#### **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:

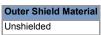


Inner Shield Drain Wire Stranding: Stranded

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

## **Outer Shield**

#### **Outer Shield Material:**



## **Outer Jacket**

## **Outer Jacket Material:**

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	1.321

## **Overall Cable**

Overall Nominal Diameter: 14.656 mm

## **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

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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

Mechanicai	Characteristics	(Overall)

Operating Temperature Range:	-20°C To +80°C	
UL Temperature Rating:	80°C (UL AWM Style 2919)	
Bulk Cable Weight:	297.491 Kg/Km	
Max. Recommended Pulling Tension:	2313.060 N	
Min. Bend Radius/Minor Axis:	149.860 mm	

## **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 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		
me Test			
III Elamo Toet:	LII 1695 LII Looding		

## Flar

**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/m) 0.59058

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m) 98.43

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m) 180.455

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## Nominal Velocity of Propagation:

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 49.215

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C:

34.779 Ohm/km

## 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	1 EA	0.000 LB			RKWT 5-296/10 M
9769 060100	100 FT	20.800 LB	CHROME	С	17 FS PR #22 HDPE PVC
9769 0601000	1,000 FT	203.000 LB	CHROME	С	17 FS PR #22 HDPE PVC
9769 060500	500 FT	103.000 LB	CHROME	С	17 FS PR #22 HDPE PVC

#### Notes:

C = CRATE REEL PUT-UP.

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