# **Detailed Specifications & Technical Data**

**ENGLISH MEASUREMENT VERSION** 



#### 8778 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	irs AWG Stranding		Conductor Material	Dia. (in.)
6.000	22	7x30	TC - Tinned Copper	0.030

#### Insulation:

Insulation Material

Ins Material	Dia. (in.)
PP - Polypropylene	0.050

#### Inner Shield:

Inner Shield Material

Inner Shield Trade Name	Туре	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
PVC - Polyvinyl Chloride

## **Overall Cabling:**

Overall Nominal Diameter: 0.362 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	

### Pair Lay Length & Direction

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

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## **Mechanical Characteristics (Overall):**

Operating Temperature Range	-20°C To +80°C		
UL Temperature Rating	80°C (UL AWM Style 2919)		
Bulk Cable Weight:	74.300 lbs/1000 ft.		
Max. Recommended Pulling Tension:	157 lbs.		
Min. Bend Radius (Install):	3.600 in.		

## **Applicable Specifications and Agency Compliance (Overall):**

<b>Applicable</b>	Standards:
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NEC/(UL) Specification	CM
CEC/C(UL) Specification	CM
AWM Specification	UL Style 2919 (30 V 80°C)
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy)	01/01/2004
Flame Test: UL Flame Test	UL1685 UL Loading
Plenum/Non-Plenum: Plenum (Y/N)	N
Non-Plenum Number	88778, 87778, 82778
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## **Electrical Characteristics (Overall):**

Nom. Characteristic Impedance



Nom. Inductance



Nom. Capacitance Conductor to Conductor



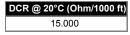
Nom. Capacitance Cond. to Other Conductor & Shield



Nominal Velocity of Propagation



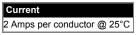
Nom. Conductor DC Resistance



Max. Operating Voltage - UL

Voltage
30 V RMS (UL AWM Style 2919)
300 V RMS (CM)

Max. Recommended Current



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

#### **PUT UPS AND COLORS:**

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Item #	Putup	Ship Weight	Jacket Color	Notes	Item Desc
8778 060100	100 FT	8.400 LB	CHROME		6 FS PR #22 HDPE PVC
8778 0601000	1,000 FT	83.000 LB	CHROME	С	6 FS PR #22 HDPE PVC
8778 060250	250 FT	21.000 LB	CHROME	С	6 FS PR #22 HDPE PVC
8778 060500	500 FT	43.000 LB	WHITE/BLACK	Α	18 STR PVC WHT/BLK

Notes:

A = STOCKED STRIPE COLORS. C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 05-14-2007

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