

**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	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	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: 0.362 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):**

**Applicable Standards:**

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
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**Plenum/Non-Plenum:**

Plenum (Y/N)	N
Non-Plenum Number	88778, 87778, 82778

**Electrical Characteristics (Overall):**

Nom. Characteristic Impedance

Impedance (Ohm)
50

Nom. Inductance

Inductance (µH/ft)
0.180

Nom. Capacitance Conductor to Conductor

Capacitance (pF/ft)
30.000

Nom. Capacitance Cond. to Other Conductor & Shield

Capacitance (pF/ft)
55.000

Nominal Velocity of Propagation

VP (%)
66

Nom. Conductor DC Resistance

DCR @ 20°C (Ohm/1000 ft)
15.000

Max. Operating Voltage - UL

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

Max. Recommended Current

Current
2 Amps per conductor @ 25°C

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	C	6 FS PR #22 HDPE PVC
8778 060250	250 FT	21.000 LB	CHROME	C	6 FS PR #22 HDPE PVC
8778 060500	500 FT	43.000 LB	WHITE/BLACK	A	18 STR PVC WHT/BLK

**Notes:**

A = STOCKED STRIPE COLORS.

C = CRATE REEL PUT-UP.

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