

## 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	22	7x30	TC - Tinned Copper	.030

**Insulation****Insulation Material:**

Insulation Material	Dia. (in.)
PP - Polypropylene	.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 Cable**

Overall Nominal Diameter: 0.352 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

**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)/Minor Axis:	3.500 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
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**Plenum/Non-Plenum**

Plenum (Y/N):	No
Non-Plenum Number:	88778, 87778, 82778

**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

## 8778 Multi-Conductor - CM Rated Cable

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

## 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

## Related Documents:

No related documents are available for this product

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8778 060100	100 FT	7.900 LB	CHROME		6 FS PR #22 PP PVC
8778 0601000	1,000 FT	78.000 LB	CHROME	C	6 FS PR #22 PP PVC
8778 060250	250 FT	19.500 LB	CHROME	C	6 FS PR #22 PP PVC
8778 060500	500 FT	40.000 LB	CHROME	C	6 FS PR #22 PP PVC

## Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 04-18-2008

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