

**8778**

Multi-Conductor - CM Rated Cable

**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.

**Put Ups and Colours**

Item #	Putup	Ship Weight	Jacket Colour	Notes	Item Description
8778 060100	100 FT	8.400 LB	CHROME		6 FS PR #22 HDPE PVC CHR
8778 0601000	1,000 FT	83.000 LB	CHROME	C	6 FS PR #22 HDPE PVC CHR
8778 060250	250 FT	21.000 LB	CHROME	C	6 FS PR #22 HDPE PVC CHR
8777 060500	500 FT	43.000 LB	CHROME	C	6 FS PR #22 HDPE PVC CHR

**Notes:**

C = Create Reel Put-up

**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	Aluminium Foil-Polyester Tape	100

**Inner Shield Drain Wire 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 – Polyvinylchloride

**Overall Cabling – Overall Nominal Diameter: 0.362 in.****Pair Colour Code Chart**

Number	Colour
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 Range	80°C (UL AWM Style 2919)
Bulk Cable Weight	74.300 lbs/1000ft
Max. Recommended Pulling Tension	157 lbs
Min. Bend Radius (Install)/Minor Axis	3.600 In.

**Applicable Specifications and Agency Compliance (overall)****Application**

NEC (UL) Specification	CM CM UL Style2919
CEC/C (UL) Specification	(300 V80°C)
AWM Specification	
EU CE Mark	
EU RoHS Compliant (commence date: dd/mm/yyyy)	(01/01/2004)

**Flame Test**

UL Flame Test	UL 1685 UL Loading
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**Plenum/Non-Plenum**

Plenum	88778, 87778, 82778
Non-Plenum Number	

**Electrical Characteristics (overall)****Nom. Characteristics Impedance**

	Impedance (Ohm)
	50.000

**Nom. Inductance**

	Inductance (µH/ft)
	0.180

**Nom. Capacitance Conductor to Conductor**

	Capacitance (pF/ft)
	30.000

**Nom. Capacitance Conductor to Other Conductor & Shield**

	Capacitance (pF/ft)
	55.000

**Nominal Velocity of Propagation**

	VP (%)
	66

**Nominal Conductor DC Resistance**

	DCR @ 20°C (Ohm/1000 ft)
	15.000

**Ind. Pair Nominal Shield DC Resistance @ 20°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