

## 87777 Multi-Conductor - CMP Rated (Plenum) Cable

 For more Information  
 please call

1-800-Belden1

**General Description:**

22 AWG stranded (7x30) TC conductor, FEP insulation, twisted pairs individually shielded with Beldfoil® (100% coverage), overall jacket per table below, 22 AWG stranded TC drain wire.

**Physical Characteristics (Overall)****Conductor**

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (mm)
3	22	7x30	TC - Tinned Copper	0.762

Total Number of Conductors: 6

**Insulation**

Insulation Material:

Insulation Material	Wall Thickness (mm)
FEP - Fluorinated Ethylene Propylene	0.254

Insulation Resistance: 200,000 megaohms/1000 ft. @500 Volts DC (Cond. to Cond.); 75,000 megaohms/1000 ft. @ 500 Volts DC (Cond. to Shield)

**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	Nom. Wall Thickness (mm)
PVDF - Fluorocopolymer	0.356

**Overall Cable**

Overall Nominal Diameter: 5.944 mm

**Pair**

Pair Color Code Chart:

Number	Color
1	Black & Red
2	Black & White
3	Black & Green

**Mechanical Characteristics (Overall)**

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Operating Temperature Range:	-20°C To +150°C
Bulk Cable Weight:	53.575 Kg/Km
Max. Recommended Pulling Tension:	364.752 N
Min. Bend Radius/Minor Axis:	63.500 mm

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
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):	04/01/2005
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:	NFPA 262
CSA Flame Test:	FT6

**Plenum/Non-Plenum**

Plenum (Y/N):	Yes
Non-Plenum Number:	8777

**Electrical Characteristics (Overall)****Nom. Characteristic Impedance:**

Impedance (Ohm)
50

**Nom. Inductance:**

Inductance (µH/m)
0.59058

**Nom. Capacitance Conductor to Conductor:**

Capacitance (pF/m)
101.711

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

Capacitance (pF/m)
219.827

**Nominal Velocity of Propagation:**

VP (%)
69

**Nominal Delay:**

Delay (ns/m)
4.82307

**Maximum Conductor DC Resistance:**

DCR @ 20°C (Ohm/100 m)
52.496

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Ind. Pair Nominal Shield DC Resistance @ 20      37.075 Ohm/km  
 Deg. C:

**Max. Operating Voltage - UL:****Voltage**

300 V RMS

**Max. Recommended Current:****Current**

3.5 Amps per conductor @ 25°C

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
87777 0021000	1,000 FT	39,000 LB	RED	C	3 SH PR #22 FEP SOLEF
87777 002500	500 FT	19,500 LB	RED	C	3 SH PR #22 FEP SOLEF

**Notes:**

C = CRATE REEL PUT-UP.

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