

## 82777 Multi-Conductor - CMP Rated (Plenum) Cable

For more Information  
please call

1-800-Belden1



### 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. (in.)
3	22	7x30	TC - Tinned Copper	.030

#### Insulation

##### Insulation Material:

Insulation Material	Dia. (in.)
FEP - Fluorinated Ethylene Propylene	.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 Trade Name	Outer Jacket Material
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride

#### Overall Cable

Overall Nominal Diameter: 0.237 in.

#### Pair

##### Pair Color Code Chart:

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

##### Pair Lay Length & Direction:

Lay Length (in.)	Twists/ft. (twist/ft)	Direction
1.000	12.000	Left Hand Lay

### Mechanical Characteristics (Overall)

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Operating Temperature Range:	0°C To +60°C
Bulk Cable Weight:	35.100 lbs/1000 ft.
Max. Recommended Pulling Tension:	82 lbs.
Min. Bend Radius (Install)/Minor Axis:	2.300 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
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
C(UL) Flame Test:	FT6

#### Plenum/Non-Plenum

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

### Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

Impedance (Ohm)

46

#### Nom. Inductance:

Inductance (µH/ft)

0.18

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

35

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

Capacitance (pF/ft)

76

#### Nominal Velocity of Propagation:

VP (%)

62

#### Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)

16

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 11.300 Ohm/1000 ft

#### Max. Operating Voltage - UL:

Voltage

300 V RMS

#### Max. Recommended Current:

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**Current**

1.96 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
82777 877U1000	1,000 FT	38.000 LB	NATURAL		3 PR #22 FS FEP FLMRST
82777 877U500	500 FT	19.500 LB	NATURAL		3 PR #22 FS FEP FLMRST
82777 8771000	1,000 FT	39.000 LB	NATURAL	C	3 PR #22 FS FEP FLMRST

**Notes:**

C = CRATE REEL PUT-UP.

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