# **Detailed Specifications & Technical Data**

**ENGLISH MEASUREMENT VERSION** 



# 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.

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# **Physical Characteristics (Overall)**

## Conductor

#### AWG:

# Pairs	AWG	Stranding	<b>Conductor Material</b>	Dia. (in.)
3	22	7x30	TC - Tinned Copper	.030

Total Number of Conductors:

## Insulation

## **Insulation Material:**

Insulation Material	Wall Thickness (in.)
FEP - Fluorinated Ethylene Propylene	0.011

## **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:

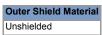


Inner Shield Drain Wire Stranding: Stranded

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

## **Outer Shield**

### **Outer Shield Material:**



## **Outer Jacket**

## **Outer Jacket Material:**

<b>Outer Jacket Trade Name</b>	Outer Jacket Material	Nom. Wall Thickness (in.)	
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride	0.017	

## **Overall Cable**

Overall Nominal Diameter: 0.237 in.

## **Pair**

# Pair Color Code Chart:

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

## **Mechanical Characteristics (Overall)**

Operating Temperature Range:	0°C To +60°C
Bulk Cable Weight:	36 lbs/1000 ft.

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Max. Recommended Pulling Tension:	82 lbs.
Min. Bend Radius/Minor Axis:	2.500 in.
<b>Applicable Specifications and Agency</b>	Compliance (Overall)
Applicable Standards & Environmental Pro	ograms
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

Yes

Yes

Yes

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)**

EU Directive 2002/96/EC (WEEE):

CA Prop 65 (CJ for Wire & Cable):

EU Directive 2003/11/EC (BFR):

MII Order #39 (China RoHS):

Nom. Characteristic Impedance:

Impedance (Ohm) 46

Nom. Inductance:

Inductance (µH/ft) 0.18

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

**Nominal Velocity of Propagation:** 

VP (%)

**Maximum Conductor DC Resistance:** 

DCR @ 20°C (Ohm/100 m)

Ind. Pair Nominal Shield DC Resistance @ 20

11.300 Ohm/1000 ft

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

1.96 Amps per conductor @ 25°C

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## **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	С	3 PR #22 FS FEP FLMRST

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 09-19-2012

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