# **Detailed Specifications & Technical Data**

**ENGLISH MEASUREMENT VERSION** 



# 88777 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 Trade Name	Insulation Material	Wall Thickness (in.)
Teflon®	FEP - Fluorinated Ethylene Propylene	0.010

#### **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:

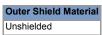


Inner Shield Drain Wire Stranding: 16x34

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

#### **Outer Shield**

#### **Outer Shield Material:**



#### **Outer Jacket**

#### **Outer Jacket Material:**

Outer Jacket Trade Name	Outer Jacket Material	Nom. Wall Thickness (in.)
Teflon®	FEP - Fluorinated Ethylene Propylene	0.014

#### **Overall Cable**

Overall Nominal Diameter: 0.234 in.

# Pair

#### **Pair Color Code Chart:**

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

## **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-70°C To +200°C		
Bulk Cable Weight:	37 lbs/1000 ft.		

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	Max. Recommended Pulling Tension:	82 lbs.			
	Min. Bend Radius/Minor Axis:	2.500 in.			
Ap	Applicable Specifications and Agency Compliance (Overall)				
Αŗ	oplicable Standards & Environmental Prog	yrams			
	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			
Fla	Flame Test				
	UL Flame Test:	NFPA 262			

FT6

Yes

8777

## Non-Plenum Number:

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

**CSA Flame Test:** 

Plenum/Non-Plenum Plenum (Y/N):

> Impedance (Ohm) 50

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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## **Notes (Overall)**

Notes: Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden. Inc.

#### **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
88777 002100	100 FT	5.900 LB	RED	С	3 SH PR #22 FEP FEP
88777 0021000	1,000 FT	41.000 LB	RED	С	3 SH PR #22 FEP FEP
88777 002500	500 FT	20.000 LB	RED	С	3 SH PR #22 FEP FEP

#### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 08-16-2012

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