# **Detailed Specifications & Technical Data**

### METRIC MEASUREMENT VERSION





## 88777 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	<b>Conductor Material</b>	Dia. (mm)
3	22	7x30	TC - Tinned Copper	0.762

Total Number of Conductors:

6

#### Insulation

#### **Insulation Material:**

Insulation Trade Name	Insulation Material	Wall Thickness (mm)
Teflon®	FEP - Fluorinated Ethylene Propylene	0.254

#### **Inner Shield**

### Inner Shield Material:

Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
Beldfoil® (Z-Fold®)	Таре	Aluminum Foil-Polyester Tape	100

#### Inner Shield Drain Wire AWG:

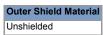


Inner Shield Drain Wire Stranding: 16x34

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

#### **Outer Shield**

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



#### **Outer Jacket**

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

<b>Outer Jacket Trade Name</b>	Outer Jacket Material	Nom. Wall Thickness (mm)	
Teflon®	FEP - Fluorinated Ethylene Propylene	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)**

Operating Temperature Range: -70°C To +200°C

Bulk Cable Weight: 55.063 Kg/Km

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Max. Recommended Pulling Tension:	364.752 N				
Min. Bend Radius/Minor Axis:	63.500 mm				
pplicable Specifications and Agency Compliance (Overall)					
Applicable Standards & Environmental Progr	rams				
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					

Yes

8777

## **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:

Non-Plenum Number:

Impedance (Ohm)

Plenum (Y/N):

Nom. Inductance:

Inductance (µH/m) 0.59058

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m) 219.827

**Nominal Velocity of Propagation:** 

**VP** (%) 69

**Maximum Conductor DC Resistance:** 

DCR @ 20°C (Ohm/100 m) 52.496

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

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

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Current
1.96 Amps per conductor @ 25°C

## **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
88777 0025000	5,000 FT	195.000 LB	RED		3 SH PR #22 FEP FEP

#### Notes:

C = CRATE REEL PUT-UP.

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