# **Detailed Specifications & Technical Data**

METRIC MEASUREMENT VERSION



# 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.

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# **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:

#### 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:

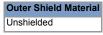


Inner Shield Drain Wire Stranding: Stranded

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

# **Outer Shield**

## **Outer Shield Material:**



#### **Outer Jacket**

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

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**

App	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			
Flar	ne Test				
	UL Flame Test:	NFPA 262			
	CSA Flame Test:	FT6			
Pler	num/Non-Plenum				
	Plenum (Y/N):	Yes			
_					

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# **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:

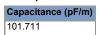
Non-Plenum Number:

Impedance (Ohm)
50

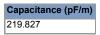
Nom. Inductance:



Nom. Capacitance Conductor to Conductor:



Nom. Capacitance Cond. to Other Conductor & Shield:



Nominal Velocity of Propagation:



Nominal Delay:



**Maximum Conductor DC Resistance:** 

DCR @ 20°C (Ohm/100 m) 52.496

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

Ind. Pair Nominal Shield DC Resistance @ 20

37.075 Ohm/km

Deg. C:

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

3.5 Amps per conductor @ 25°C

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

Item #	Putup	Ship Weight	Color	Notes	Item Desc

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

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