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.

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (mm)
3	22	7x30	TC - Tinned Copper	0.762

Total Number of Conductors: 6

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®)	Таре	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

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			
Flame Test				
UL Flame Test:	NFPA 262			
CSA Flame Test:	FT6			
Plenum/Non-Plenum				
Plenum (Y/N):	Yes			
Plenum/Non-Plenum				

8777

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Non-Plenum Number:

Impedance	(Ohm)
50	

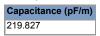
Nom. Inductance:



Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
101.711

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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Ind. Pair Nominal Shield DC Resistance @ 20 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
87777 0021000	1,000 FT	39.000 LB	RED	С	3 SH PR #22 FEP SOLEF
87777 002500	500 FT	19.500 LB	RED	С	3 SH PR #22 FEP SOLEF

37.075 Ohm/km

Notes:

C = CRATE REEL PUT-UP.

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

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