# **Detailed Specifications & Technical Data**

**ENGLISH MEASUREMENT VERSION** 



# 82778 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.

# **Physical Characteristics (Overall)**

### Conductor

#### AWG:

# Pairs	AWG	Stranding	<b>Conductor Material</b>	Dia. (in.)
6	22	7x30	TC - Tinned Copper	.030

### Insulation

### **Insulation Material:**

Insulation Material	Dia. (in.)
FEP - Fluorinated Ethylene Propylene	.050

### **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:

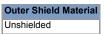


Inner Shield Drain Wire Stranding: Stranded

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

## **Outer Shield**

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



## **Outer Jacket**

### **Outer Jacket Material:**

Outer Jacket Trade Name	Outer Jacket Material		
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride		

## **Overall Cable**

Overall Nominal Diameter: 0.314 in.

## **Pair**

## **Pair Color Code Chart:**

Number	Color
1	Black & Red
2	Black & White
3	Black & Green
4	Black & Blue
5	Black & Yellow
6	Black & Brown

# Pair Lay Length & Direction:

Lay Length (in.) Twists/ft. (twist/ft) Direction

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1.000	12.000	Left Hand Lay

Mechanical Characteristics (Overall)					
Operating Temperature Range:	0°C To +60°C				
Bulk Cable Weight:	63 lbs/1000 ft.				
Min. Bend Radius (Install)/Minor Axis:	3.250 in.				
Applicable Specifications and Agency Compliance (Overall)					
Applicable Standards & Environmental Programs					
NEC/(UL) Specification:	CMP				

	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	ime Test	
	UL Flame Test:	NFPA 262
	C(UL) Flame Test:	FT6

Yes

8778

# Non-Plenum Number:

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm) 46

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

Nom. Inductance:

Inductance (µH/ft) 0.18

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
35

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
76

Nominal Velocity of Propagation:

**VP (%)** 62

**Maximum Conductor DC Resistance:** 

DCR @ 20°C (Ohm/100 m) 16

Ind. Pair Nominal Shield DC Resistance @ 20 11.300 Ohm/1000 ft Deg. C:

Max. Operating Voltage - UL:

Voltage

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300 V RMS

#### Max. Recommended Current:

Current

1.96 Amps per conductor @ 25°C

### **Related Documents:**

No related documents are available for this product

## **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
82778 8771000	1,000 FT	71.000 LB	NATURAL	С	6PR#22 FS FEP FLMRST

Notes:

C = CRATE REEL PUT-UP.

Revision Date: 04-16-2008 Revision Number: 1

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