

## 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	Conductor Material	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:**

AWG
22

Inner Shield Drain Wire Stranding: Stranded

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

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

Outer Shield Material
Unshielded

**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
------------------	-----------------------	-----------

## 82778 Multi-Conductor - CMP Rated (Plenum) Cable

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
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

**Flame Test**

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

**Plenum/Non-Plenum**

Plenum (Y/N):	Yes
Non-Plenum Number:	8778

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

Impedance (Ohm)
46

**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 Deg. C:	11.300 Ohm/1000 ft
---	--------------------

**Max. Operating Voltage - UL:**

Voltage
---------

## 82778 Multi-Conductor - CMP Rated (Plenum) Cable

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	C	6PR#22 FS FEP FLMRST

## Notes:

C = CRATE REEL PUT-UP.

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

© 2012 Belden, Inc  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.