

## 87778 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)
6	22	7x30	TC - Tinned Copper	0.762

**Total Number of Conductors:** 12
**Insulation****Insulation Material:**

Insulation Material	Wall Thickness (mm)
FEP - Fluorinated Ethylene Propylene	0.254

**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 Material	Nom. Wall Thickness (mm)
PVDF - Fluorocopolymer	0.356

**Overall Cable**
**Overall Nominal Diameter:** 7.849 mm
**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

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**Mechanical Characteristics (Overall)**

Operating Temperature Range:	-20°C To +150°C
Bulk Cable Weight:	98.221 Kg/Km
Max. Recommended Pulling Tension:	725.057 N
Min. Bend Radius/Minor Axis:	82.550 mm

**Applicable Specifications and Agency Compliance (Overall)****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
Non-Plenum Number:	8778

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

Impedance (Ohm)

50

**Nom. Inductance:**

Inductance (µH/m)

0.59058

**Nom. Capacitance Conductor to Conductor:**

Capacitance (pF/m)

101.711

**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 Deg. C: 37.075 Ohm/km

## 87778 Multi-Conductor - CMP Rated (Plenum) Cable

## Max. Operating Voltage - UL:

## Voltage

300 V RMS

## Max. Recommended Current:

## Current

1.96 Amps per conductor @ 25°C

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
87778 0021000	305 MT	32.205 KG	RED	C	6 SH PR #22 FEP SOLEF
87778 002500	152 MT	16.783 KG	RED	C	6 SH PR #22 FEP SOLEF

## Notes:

C = CRATE REEL PUT-UP.

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