

## 8776 Multi-Conductor - CM Rated Cable

For more Information  
please call

1-800-Belden1

**Description:**

22 AWG stranded (7x30) TC conductors, polypropylene insulation, twisted pairs, individually shielded w/Beldfoil® (100% coverage), overall PVC jacket and 22 AWG stranded TC drain wire.

**Physical Characteristics (Overall)****Conductor****AWG:**

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
15	22	7x30	TC - Tinned Copper	.030

**Insulation****Insulation Material:**

Insulation Material	Dia. (in.)
PP - Polypropylene	.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 Material
PVC - Polyvinyl Chloride

**Overall Cable**

Overall Nominal Diameter: 0.548 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
7	Black & Orange
8	Red & White
9	Red & Green

10	Red & Blue
11	Red & Yellow
12	Red & Brown
13	Red & Orange
14	Green & White
15	Green & Blue

**Pair Lay Length & Direction:**

Lay Length (in.)	Twists/ft. (twist/ft)
1.750	6.850

**Mechanical Characteristics (Overall)**

Operating Temperature Range:	-20°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 2919)
Bulk Cable Weight:	178.100 lbs/1000 ft.
Max. Recommended Pulling Tension:	350 lbs.
Min. Bend Radius (Install)/Minor Axis:	5.600 in.

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CM
AWM Specification:	UL Style 2919 (30 V 80°C)
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):	01/01/2004
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:	UL1685 UL Loading
----------------	-------------------

**Plenum/Non-Plenum**

Plenum (Y/N):	No
---------------	----

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

Impedance (Ohm)
50

**Nom. Inductance:**

Inductance (µH/ft)
0.18

**Nom. Capacitance Conductor to Conductor:**

Capacitance (pF/ft)
30

**Nom. Capacitance Cond. to Other Conductor & Shield:**

Capacitance (pF/ft)
55

**Nominal Velocity of Propagation:**

## 8776 Multi-Conductor - CM Rated Cable

**VP (%)**

66

**Nom. Conductor DC Resistance:****DCR @ 20°C (Ohm/1000 ft)**

15

**Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C:** 10.600 Ohm/1000 ft

**Max. Operating Voltage - UL:****Voltage**

30 V RMS (UL AWM Style 2919)

300 V RMS (CM)

**Max. Recommended Current:****Current**

1.4 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
8776 060100	100 FT	18.800 LB	CHROME	C	15 FS PR #22 PP PVC
8776 0601000	1,000 FT	187.000 LB	CHROME	C	15 FS PR #22 PP PVC
8776 060500	500 FT	93.000 LB	CHROME	C	15 FS PR #22 PP PVC

**Notes:**

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 04-17-2008

© 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.