

# Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

**BELDEN**  
SENDING ALL THE RIGHT SIGNALS

## 8780 Multi-Conductor - Single-Pair Cable

For more Information  
please call

1-800-Belden1



### General Description:

16 AWG stranded (19x29) tinned copper conductors, PVC insulation, twisted pair, tinned copper spiral wrapped shield (85% coverage), PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
1	16	19x29	TC - Tinned Copper	.059

Total Number of Conductors: 2

#### Insulation

Insulation Material:

Insulation Material	Dia. (in.)
PVC - Polyvinyl Chloride	0.105

#### Outer Shield

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Spiral Serve	TC - Tinned Copper	85

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

#### Overall Cable

Overall Nominal Diameter: 0.280 in.

#### Pair

Pair Color Code Chart:

Color
Black and White

### Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +60°C

UL Temperature Rating: 60°C

Bulk Cable Weight: 42 lbs/1000 ft.

Max. Recommended Pulling Tension: 61 lbs.

Min. Bend Radius/Minor Axis: 3 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMG

CEC/C(UL) Specification: CMG

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

# Detailed Specifications & Technical Data



## ENGLISH MEASUREMENT VERSION

## 8780 Multi-Conductor - Single-Pair Cable

MII Order #39 (China RoHS):

Yes

### Flame Test

CSA Flame Test:

FT4

### Plenum/Non-Plenum

Plenum (Y/N):

No

### Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

Impedance (Ohm)  
37

#### Nom. Inductance:

Inductance (μH/ft)  
0.18

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)  
57

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

Capacitance (pF/ft)  
98

#### Nominal Velocity of Propagation:

VP (%)  
65

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)  
4.75

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)  
19

#### Max. Operating Voltage - UL:

Voltage  
300 V RMS

#### Max. Recommended Current:

Current  
7.1 Amps per conductor @ 25°C

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8780 060U1000	1,000 FT	44.000 LB	CHROME		1 PR #16 PVC SHLD PVC
8780 0601000	1,000 FT	46.000 LB	CHROME	C	1 PR #16 PVC SHLD PVC
8780 060500	500 FT	23.000 LB	CHROME	C	1 PR #16 PVC SHLD PVC
8780 0605000	5,000 FT	225.000 LB	CHROME		1 PR #16 PVC SHLD PVC

#### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 10-15-2012

© 2017 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 2014/35/EU).