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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. (mm)
1	16	19x29	TC - Tinned Copper	1.4986

Total Number of Conductors: 2

#### Insulation

Insulation Material:

Insulation Material	Dia. (mm)
PVC - Polyvinyl Chloride	2.667

#### 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: 7.112 mm

#### 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:	62.504 Kg/Km
Max. Recommended Pulling Tension:	271.340 N
Min. Bend Radius/Minor Axis:	76.200 mm

### 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

## METRIC 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/m)

0.59058

### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

187.017

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

Capacitance (pF/m)

321.538

### Nominal Velocity of Propagation:

VP (%)

65

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

15.5848

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

62.339

### 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 060I000	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.

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