

**Product:** [8780](#) 

Audio Cable, #16-1pr, TC, O/A Shield, CMG



REPRESENTATIVE IMAGE

## Product Description

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

## Technical Specifications

### Product Overview

Suitable Applications:	low voltage analog signals (4-20ma, 0-10v, ...); low voltage digital control (24v, ...); line level audio; computer communication; panel wiring
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### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
16	19x29	TC - Tinned Copper	0.059 in	1

Conductor Count:	2
Total Number of Pairs:	1

#### Insulation

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.105 in	0.023 in

#### Color Chart

Color
Black and White

#### Outer Shield

Type	Material	Coverage [%]
Spiral Serve / Screen	Tinned Copper (TC)	85%

#### Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.28 in	0.030 in

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR	Conductor Resistance	Nominal Outer Shield DCR
4.75 Ohm/1000ft	4.75 Ohm/1000ft		19 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
57 pF/ft	98 pF/ft

#### Inductance

Nominal Inductance
0.18 $\mu$ H/ft

#### Impedance

**Nominal Characteristic Impedance**

37 Ohm

**Delay****Nominal Velocity of Propagation (VP) [%]**

65%

**Current****Max. Recommended Current [A]**

7.1 Amps per Conductor at 25°C

**Voltage****UL Voltage Rating**

300 V RMS

**Temperature Range**

UL Temp Rating:	60°C
Operating Temperature Range:	-20°C To +60°C

**Mechanical Characteristics**

Bulk Cable Weight:	42 lbs/1000ft
Max. Pull Tension:	61 lbs
Min. Bend Radius/Minor Axis:	3 in

**Standards**

NEC/(UL) Compliance:	CMG
CEC/C(UL) Compliance:	CMG

**Applicable Environmental and Other Programs**

Environmental Space:	Indoor (Not Riser or Plenum)
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
MII Order #39 (China RoHS):	Yes

**Suitability**

Suitability - Indoor:	Yes
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**Flammability, LS0H, Toxicity Testing**

C(UL) Flammability:	FT4
IEEE Flammability:	1202
UL voltage rating:	300 V RMS

**Plenum/Non-Plenum**

Plenum (Y/N):	No
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**Related Part Numbers****Variants**

Item #	Color	Put-Up Type	Length	UPC
8780 060500	Chrome	Reel	500 ft	612825216322
8780 0601000	Chrome	Reel	1,000 ft	612825216315
8780 060U1000	Chrome	UnReel	1,000 ft	612825216339
8780 0605000	Chrome	Reel	5,000 ft	612825216292

Footnote: C - CRATE REEL PUT-UP.

**History**

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