



Product: [8780](#)

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

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	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 µH/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 Temp 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

CSA Flammability:	FT4
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

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.
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History

Update and Revision:	Revision Number: 0.325 Revision Date: 09-24-2021
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