



Part Number: 83719

Audio/Control/Instrumentation, (19) 16 AWG (19x29) TC, FEP/FEP, Foil+TC Braid Shld, CMP

Product Description

Nineteen 16 AWG stranded (19x29) tinned copper conductors, plenum, Teflon® (FEP) insulation, overall Beldfoil® shield (100% coverage) plus tinned copper braid shield (85% coverage), Teflon® (FEP) jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Conductors
16	19x29	TC - Tinned Copper	19

Total Number of Conductors:	19
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Insulation

Material	Material Trade Name	Nominal Wall Thickness
FEP - Fluorinated Ethylene Propylene	Teflon®	0.007 in

Color Chart

Number	Color
1	Black
2	White
3	Red
4	Green
5	Orange
6	Blue
7	White/Black
8	Red/Black
9	Green/Black
10	Orange/Black
11	Blue/Black
12	Black/White
13	Red/White
14	Green/White
15	Blue/White
16	Black/Red
17	White/Red
18	Orange/Red
19	Blue/Red

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum Foil-Polyester Tape	Beldfoil®	100 %
Braid	2	TC - Tinned Copper		85 %

Outer Jacket Material

Material	Material Trade Name	Nominal Diameter	Nominal Wall Thickness
FEP - Fluorinated Ethylene Propylene	Teflon®	0.403 in	0.014 in

Electrical Characteristics

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
35 pF/ft	63 pF/ft
Shielding: Foil + Braid(s)	

Construction and Dimensions

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
4.43 Ohm/1000ft	2.67 Ohm/1000ft

Impedance

Nominal Characteristic Impedance
N/A

Current

Max. Recommended Current [A]
3.2 Amps per conductor @ 25°C

Voltage

UL Voltage Rating
300V RMS

Applicable Standards & Environmental Programs

CEC/C(UL) Specification:	CMP
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-04-01
CPR Euroclass:	Eca
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Standards

NEC Articles:	800
NEC/(UL) Specification:	CMP

Flame Test

CSA Flammability:	FT6
UL Flammability:	NFPA 262

Safety

UL Voltage Rating:	300 V RMS
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Mechanical Characteristics

Operating Temp Range:	-70°C To +200°C
Bulk Cable Weight:	218(lbs/1000ft)
Max Recommended Pulling Tension:	577(lbs)

Min Bend Radius/Minor Axis:	4.25(in)
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Plenum/Non-Plenum

Plenum (Y/N):	Yes
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History

Variants

Item #	Color
83719 002100	RED
83719 0021000	RED
83719 002500	RED

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Mouser Electronics

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