Product: 83719

Electronic, 19 C #16 Str TC, FEP Ins, OS+TC Brd, FEP Jkt, CMP

Request Sample

Product Description

High Temperature Electronic, 19 Conductor 16AWG (19x29) Tinned Copper, FEP Insulation, Overall Beldfoil®+Tinned Copper Braid(85%) Shield, FEP Outer Jacket, CMP

Technical Specifications

Product Overview

Suitable Applications:	extreme high/low temperature environments; chemical resistant; outdoor and burial applications; low voltage analog signals (4-20ma, 0-10v, ...); low voltage control (24v, …); line level audio; voice communications; panel wiring

Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	No. of Conductors
Conductor(s)	16	19x29	TC - Tinned Copper	19

Conductor Count:	19

Insulation

Element	Material	Material Trade Name	Nominal Wall Thickness
Conductor(s)	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	Alum / Poly	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

Conductor DCR

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

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
35 pF/ft	63 pF/ft

Current

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

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

Operating Temp Range:	-70°C To +200°C

Mechanical Characteristics

Bulk Cable Weight:	218 lbs/1000ft
Max Recommended Pulling Tension:	577 lbs
Min Bend Radius/Minor Axis:	4.25 in

Standards

NEC Articles:	800
NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
CPR Euroclass:	Eca

Applicable Environmental and Other Programs

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
CA Prop 65:	Yes
MII Order #39 (China RoHS):	Yes

Flammability, LS0H, Toxicity Testing

UL Flammability:	NFPA 262
CSA Flammability:	FT6
ISO/IEC Flammability:	IEC 60332-1-2
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	Yes

Part Number

Variants

Item #	Color	Putup Type	Length	UPC
83719 002100	Red	Reel	100 ft	612825205630
83719 002500	Red	Reel	500 ft	612825205654
83719 0021000	Red	Reel	1,000 ft	612825205647

Footnote:	C - CRATE REEL PUT-UP.

Product Notes

Notes:	Teflon« is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

History

Update and Revision:	Revision Number: 0.292 Revision Date: 05-05-2020

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