



**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
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**Physical Characteristics (Overall)**

**Conductor**

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

Conductor Count:	19
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**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 Stripe
8	Red/Black Stripe
9	Green/Black Stripe
10	Orange/Black Stripe
11	Blue/Black Stripe
12	Black/White Stripe
13	Red/White Stripe
14	Green/White Stripe
15	Blue/White Stripe
16	Black/Red Stripe
17	White/Red Stripe
18	Orange/Red Stripe
19	Blue/Red Stripe

**Outer Shield Material**

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Alum / Poly	Beldfoil®	100 %

Braid	2	TC - Tinned Copper	85 %
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#### 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 ambient

#### Voltage

UL Description	UL Voltage Rating
CMP	300 V

## Temperature Range

UL Temp Rating:	150°C
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

## Suitability

Suitability - Burial:	Yes
Suitability - Oil Resistance:	Yes
Suitability - Outdoor:	Yes

## Flammability, LS0H, Toxicity Testing

UL Flammability:	NFPA 262
CSA Flammability:	FT6

ISO/IEC Flammability:	IEC 60332-1-2
UL voltage rating:	300 V

## Plenum/Non-Plenum

Plenum (Y/N):	Yes
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## 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.
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## Product Notes

Notes:	Gas Resistant
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## History

Update and Revision:	Revision Number: 0.294 Revision Date: 05-27-2020
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