



**Product:** [83569](#)

Electronic, 19 C #22 Str TC, FEP Ins, OS+TC Brd, FEP Jkt, CMP

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## Product Description

High Temperature Electronic, 19 Conductor 22AWG (7x30) 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)	22	7x30	TC - Tinned Copper	19

Conductor Count:	19
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#### Insulation

Element	Material	Nominal Wall Thickness
Conductor(s)	FEP - Fluorinated Ethylene Propylene	0.0065 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 %
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#### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
FEP - Fluorinated Ethylene Propylene	0.269 in	0.015 in

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
15.5 Ohm/1000ft	3.09 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
23 pF/ft	40 pF/ft

#### Current

Element	Max. Recommended Current [A]
10C Temperature rise	1.4 Amps per conductor @ 25°C ambient

#### Voltage

UL Voltage Rating
300 V RMS

### Temperature Range

Operating Temp Range:	-70°C To +200°C
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### Mechanical Characteristics

Bulk Cable Weight:	81 lbs/1000ft
Max Recommended Pulling Tension:	225 lbs
Min Bend Radius/Minor Axis:	3.0 in

### Standards

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

### 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 - Indoor:	Yes
Suitability - Outdoor:	Yes

### Flammability, LSOH, Toxicity Testing

UL Flammability:	NFPA 262
CSA Flammability:	FT6
UL voltage rating:	300 V RMS

## Plenum/Non-Plenum

Plenum (Y/N): Yes

## Part Number

### Variants

Item #	Color	Putup Type	Length	UPC
83569 0021000	Red	Reel	1,000 ft	612825205067

Footnote: C - CRATE REEL PUT-UP.

## History

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

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