



REPRESENTATIVE IMAGE

**Product:** [83656](#)

Electronic, 6 C #18 Str TC, FEP Ins, OS+TC Brd, FEP Jkt, CMP

[Request Sample](#)

**Product Description**

High Temperature Electronic, 6 Conductor 18AWG (19x30) 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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**Construction Details**

**Conductor**

Element	Number of Element	Size	Stranding	Material
Conductor(s)	6	18 AWG	19x30	TC - Tinned Copper

**Insulation**

Element	Material	Nom. Thickness	Color Code
Conductor(s)	FEP - Fluorinated Ethylene Propylene	0.007 in (0.18 mm)	Black, White, Red, Green, Orange, Blue

**Outer Shield**

Shield Type	Material	Coverage
Tape	Bi-Laminate (Alum+Poly)	100%
Braid	Tinned Copper (TC)	85%

**Outer Jacket**

Material	Nom. Thickness	Nom. Diameter
FEP - Fluorinated Ethylene Propylene	0.014 in (0.36 mm)	0.228 in (5.79 mm)

Overall Cable Diameter (Nominal):	0.228 in (5.79 mm)
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**Electrical Characteristics**

**Electricals**

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Max. Current
Conductor(s)	5.8 Ohm/1000ft (19 Ohm/km)	33 pF/ft (110 pF/m)	60 pF/ft (200 pF/m)	3.8 Amps per Conductor at 25°C

**Voltage**

UL Voltage Rating
300 V (CMP)

**Mechanical Characteristics**

**Temperature**

UL Temperature	Operating
150°C	-70°C to +200°C

**Bend Radius**

Stationary Min.	Installation Min.
2.3 in (58 mm)	2.3 in (58 mm)

Max. Pull Tension:	144 lbs
Bulk Cable Weight:	58 lbs/1000ft (86 kg/km)

## Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Oil Resistance, Burial
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	NFPA 262, FT6, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 800, CMP
CEC / C(UL) Compliance:	CMP
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

## Product Notes

Notes:	Gas Resistant
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## History

Update and Revision:	Revision Number: 0.361 Revision Date: 12-15-2021
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## Variants

Item #	Color	Putup Type	Length	UPC
83656 002100	Red	Reel	100 ft	612825205357
83656 002500	Red	Reel	500 ft	612825205388
83656 0021000	Red	Reel	1,000 ft	612825205364
83656 0024000	Red	Reel	4,000 ft	612825205371

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