



**Product:** [83654](#)

Electronic, 4 C #18 Str TC, FEP Ins, OS+TC Brd, FEP Jkt, CMP

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**Product Description**

High Temperature Electronic, 4 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)	4	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

**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)	0.195 in (4.95 mm)

Overall Cable Diameter (Nominal):	0.195 in (4.95 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)	4.3 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.
2.0 in (51 mm)	2.0 in (51 mm)

Max. Pull Tension:	96 lbs
Bulk Cable Weight:	42 lbs/1000ft (63 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: 0.357 Revision Date: 12-15-2021
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## Variants

Item #	Color	Putup Type	Length	UPC
83654 002100	Red	Reel	100 ft	612825205319
83654 002500	Red	Reel	500 ft	612825205333
83654 0021000	Red	Reel	1,000 ft	612825205326
83654 0025000	Red	Reel	5,000 ft	612825205340

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