



**Product:** <u>83659</u> ☑

Electronic, 9 C #18 Str TC, FEP Ins, OS+TC Brd, FEP Jkt, CMP

Request Sample

# **Product Description**

High Temperature Electronic, 9 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

### **Construction Details**

#### Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	9	18 AWG	19x30	TC - Tinned Copper

#### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	FEP - Fluorinated Ethylene Propylene	0.007 in (0.18 mm)	0.057 in (1.4 mm)	Black, White, Red, Green, Orange, Blue, White/Black Stripe, Red/Black Stripe, Green/Black Stripe

# Outer Shield

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

#### Outer Jacket

Material		Nom. Thickness	Nom. Diameter
FEP - Fluorinated Ethylene Pr	ropylene	0.015 in (0.38 mm)	0.265 in (6.73 mm)
Overall Cable Diameter (Nominal):	0.265 in	ı (6.73 mm)	

# **Electrical Characteristics**

## Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Max. Current
Conductor(s)	7.06 Ohm/1000ft	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

### **Mechanical Characteristics**

#### Temperature

<b>UL Temperature</b>	Operating
150°C	-70°C to +200°C

# Bend Radius

Stationary Min.	Installation Min.
2.7 in (69 mm)	2.7 in (69 mm)

Max. Pull Tension:	274 lbs (124 kg)
Bulk Cable Weight:	81 lbs/1000ft

## **Standards and Compliance**

Environmental Suitability:	Indoor, Outdoor, Oil Resistance, Burial
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	NFPA 262 (UL 910), 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 Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)

## **Product Notes**

Notes:	Gas Resistant	

#### History

Update and Revision:	Revision Number: 0.514 Revision Date: 02-03-2025

### **Part Numbers**

### Variants

Item #	Color	Putup Type	Length	UPC	Footnote
83659 00210	00 Red	Reel	100 ft	612825205395	
83659 00250	00 Red	Reel	500 ft	612825205418	С
83659 00210	000 Red	Reel	1,000 ft	612825205401	С
83659 00250	000 Red	Reel	5,000 ft	612825205425	CZ

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