



Product: [89418](#)

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

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Product Description

High Temperature Electronic, 4 Conductor 18AWG (19x30) Tinned Copper, FEP Insulation, Overall Beldfoil® 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	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

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	20 AWG (19x32) TC

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
FEP - Fluorinated Ethylene Propylene	0.014 in (0.36 mm)	0.173 in (4.39 mm)

Overall Cable Diameter (Nominal):	0.173 in (4.39 mm)
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Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Velocity of Prop.	Max. Current
Conductor(s)	7.06 Ohm/1000ft	30 pF/ft (98 pF/m)	57 pF/ft (190 pF/m)	69%	13.6 Amps per Conductor at 30°C

Voltage

UL Voltage Rating
300 V (CMP)

Mechanical Characteristics

Temperature

UL Temperature	Operating
150°C	-20°C to +150°C

Bend Radius

Stationary Min.	Installation Min.
1.7 in (43 mm)	1.7 in (43 mm)

Max. Pull Tension:	114 lbs (51.7 kg)
Bulk Cable Weight:	36 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Oil Resistance, Burial
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	NFPA 262, UL 910 (Plenum), 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)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Non-Plenum Number:	9418

Product Notes

Notes:	Chemical Resistance: Gasoline
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History

Update and Revision:	Revision Number: 0.526 Revision Date: 01-20-2023
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
89418 002100	Red	Reel	100 ft	612825220930
89418 002500	Red	Reel	500 ft	612825220954
89418 0021000	Red	Reel	1,000 ft	612825220947
89418 0025000	Red	Reel	5,000 ft	612825220961

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