



Product: [2118A](#)

Fieldbus, 1 Pr #18 Str TC, XLPO Ins, OS, TPE Jkt, 600V TC

[Request Sample](#)

Product Description

Fieldbus, 1 Pair 18AWG (7x26) Tinned Copper, XLPO Insulation, Overall Beldfoil® Shield, TPE Outer Jacket, 600V TC

Technical Specifications

Product Overview

Suitable Applications: harsh environment digital and serial two-way communication, oil and gas extraction and refining sites, petrochemical, Profibus process automation or Foundation FieldBus process automation, extreme temperature environments, exposure to humidity/moisture, dust, and oil, remote locations long distance applications, etc.

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	1	18	7x26	TC - Tinned Copper

Insulation

Material	Color Code
XLPE - Cross-Linked Polyethylene (Thermoset)	Blue, Orange and Numbered

Inner Shield

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

Outer Shield

Material
Bi-Laminate (Alum+Poly)

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
TPE - Thermoplastic Elastomer	0.047 in (1.2 mm)	0.319 in (8.10 mm)	Yes

Electrical Characteristics

Electricals

Nom. Conductor DCR	Max. Capacitance Unbalance	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.	Max. Current
7.06 Ohm/1000ft	1.2 pF/ft (3.9 pF/m)	22 pF/ft	100 Ohm	64%	8.7 Amps per Conductor

Nom. Outer Shield DCR: 1.48 Ohm/1000ft (4.86 Ohm/km)

High Frequency (Nominal/Typical)

Nom. Insertion Loss (Attenuation)
0.08 dB/100ft

High Frequency

Max. Insertion Loss (Attenuation)	Max./Min. Input Impedance (unFitted) [Ohm]
0.091 dB/100ft	100

Voltage

UL Voltage Rating
600 V

Mechanical Characteristics

Temperature

UL Temperature	Operating
90°C Wet/Dry	-25°C Cold Impact -40°C to +90°C -55°C Cold Bend

Bend Radius

Stationary Min.	Installation Min.
3.19 in (81.0 mm)	3.19 in (81.0 mm)

Max. Pull Tension:	44.8 lbs (20.3 kg)
Bulk Cable Weight:	51 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, UV Resistance, Oil Resistance, Oil Resistance, Burial
Flammability / Reaction to Fire:	UL1581 Vertical Tray, 1202, IEC 60332-3-24
NEC / UL Compliance:	Article 336, TC-ER
AWM Compliance:	AWM I A/B II A/B, C22.2 #230 Type TC; C22.2#239 Type CIC
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)

History

Update and Revision:	Revision Number: 0.545 Revision Date: 02-15-2024
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
2118A 0061000	Blue, Light	Reel	1,000 ft	612825129479
2118A 0065000	Blue, Light	Reel	5,000 ft	612825129486
2118A 0035000	Orange	Reel	5,000 ft	612825129462

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