



Product: 2128A ☑

Fieldbus, 2 Pr #16 Str TC, XLPE Ins, IS/OS, TPE Jkt, 600V TC-ER

Request Sample

Product Description

Fieldbus, 2 Pair 16AWG (7x24) Tinned Copper, XLPE Insulation, Individual & Overall Beldfoil® Shield, TPE Outer Jacket, 600V TC-ER

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	Number of Element	Size	Stranding	Material
Pair(s)	2	16 AWG	7x24	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Color Code
Pair(s)	XLPE - Cross-Linked Polyethylene (Thermoset)	0.038 in (0.97 mm)	Blue, Orange and Numbered

Inner Shield

Element	Shield Type	Material	Coverage	Drainwire Type	Notes
Pair(s)	Таре	Bi-Laminate (Alum+Poly)	100%	18 AWG (7x26) TC	Individually Shielded

Outer Shield

Shield Type Material		Coverage	Drainwire Type
Таре	Bi-Laminate (Alum+Poly)	100%	16 AWG (7x24) TC

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
TPE - Thermoplastic Elast	omer 0.063 in (1.6 mm)	0.629 in (16.0 mm)	Yes
Overall Cable Diameter (Nominal):	0.629 in (16.0 mm)		

Electrical Characteristics

Electricals

Nom. Conductor DCR	Max. Capacitance Unbalance	Nom. Capacitance Cond-to-Cond	Nom. Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
4.2 Ohm/1000ft (14 Ohm/km)	1.2 pF/ft (3.9 pF/m)	22 pF/ft (72 pF/m)	100 Ohm	64%	11.6 Amps per Conductor

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss (Attenuation)
0.039	0.065 dB/100ft

High Frequency

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

Voltage

Mechanical Characteristics

UL Temperature Operating

Temperature

90°C Wet/Dry -	-40°C to 90°C	
Table Notes:	-40C	
Max. Pull Tension:	223 lbs	s (101 kg)
Bulk Cable Weight:	165 lbs	s/1000ft (246 kg/km)

Standards and Compliance

Environmental Suitability: Indoor, Outdoor, Sunlight Resistance, Oil Resistance, Burial					
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Flammability / Reaction to Fire:	UL1581 Vertical Tray, IEC 60332-3-24				
NEC / UL Compliance:	Article 336, TC-ER				
AWM Compliance:	AWM I A/B II A/B				
CEC / C(UL) Compliance:	CIC, TC				
ISO/IEC Compliance:	IEC 61158-2				
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)				
Other Standard Compliance(s):	ISA/SP-50 Type A				

History

Update and Revision:	Revision Number: 0.456 Revision Date: 05-05-2023
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
2128A 0061000	Blue, Light	Reel	1,000 ft	612825130048
2128A 0065000	Blue, Light	Reel	5,000 ft	612825130055
2128A 0031000	Orange	Reel	1,000 ft	612825130024
2128A 0035000	Orange	Reel	5,000 ft	612825130031

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