



Product Description

Fieldbus, 16 Pair 18AWG (7x26) Tinned Copper, PO Insulation, Individual & Overall Beldfoil® Shield, Orange PVC Outer Jacket, CMG

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.
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Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	Nominal Diameter	No. of Pairs
Pair(s)	18	7x26	TC - Tinned Copper	0.048 in	16
Conducto	Conductor Count: 32				

Insulation

Material PP - Polypropylene

Color Chart

Number	Color
1	Blue, Orange and Numbered
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	

Inner Shield

Туре	Material	Material Trade Name	Coverage [%]	Drainwire AWG	Drainwire Construction n x D
Таре	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	20	7x28
	Tinned Copper (TC)				

Outer Shield

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Туре	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D

Stranding

Twists 6 twist/ft

Electrical Characteristics

7.5 Ohm/1000ft	d DCR	Nominal Conductor DCR	Nomina	al Outer Shield DCR	
		5.86 Ohm/1000ft	4.9 Ohm/1000ft		
Capacitance					
Max. Capacitance Unbalance	e Nom.	Capacitance Conductor to	Shield	Nom.Mutual Capacita	ance
1.2 pF/ft	45 pF/	ft		24 pF/ft	
Inductance					
Nominal Inductance					
0.19 μH/ft					
Impedance					
Nominal Characteristic Impe	edance				
100 Ohm					
0.08 dB/100ft					
Delay Nominal Velocity of Propaga 66%	ation (VP) [%]			
Nominal Velocity of Propaga	ation (VP) [%]			
Nominal Velocity of Propaga) [%] lax./Min. Input Impedance	(unFitte	d)	
Nominal Velocity of Propaga 66% High Frequency	ation) M		(unFitte	d)	
Nominal Velocity of Propaga 66% High Frequency Max. Insertion Loss (Attenua 0.091 dB/100ft	ation) M	lax./Min. Input Impedance	(unFitte	d)	
Nominal Velocity of Propaga 66% High Frequency Max. Insertion Loss (Attenue	ation) M	lax./Min. Input Impedance 00 Ohm	(unFitte	a)	

300 V RMS Electrical Characteristics Notes: Max Propagation Delay Change From 7.812 kHz to 39.06 kHz: 518 pS/ft Other Electrical Characteristic 2: 31.25 KBits/sec

Temperature Range

UL Temp Rating:	105°C
Operating Temperature Range:	-40°C to +105°C

Mechanical Characteristics

Oil Resistance:	Yes
UV Resistance:	Yes
Max. Pull Tension:	940 lbs
Min. Bend Radius/Minor Axis:	9.2 in

Standards

NEC Articles:	Article 725, Article 727, Article 800	
NEC/(UL) Compliance:	CMG, CMX-Outdoor, ITC, PLTC-ER	
CEC/C(UL) Compliance:	CMG	

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Burial:	Yes - UL
Suitability - Indoor:	Yes
Suitability - Oil Resistance:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 FT4 Loading
IEC Flammability:	IEC 60332-3-24
IEEE Flammability:	1202
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No		

Related Part Numbers

Variants

Item #	Color	Put-U	р Туре	Length	UPC
1331A 0031000	Orange	Reel		1,000 ft	612825112082
Footnote:			L PUT-UP.		

History

Update and Revision: Revision Number: 0.446 Revision Date: 04-30-2024

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