



Product: [3076T](#)

Fieldbus, 1 Pr #18 Str TC, PP Ins, OS, LSZH Jkt, CMG ISA/SP-50 Type A, PLTC, ITC, CMG

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Product Description

Fieldbus, 1 Pair 18AWG (7x26) Tinned Copper, PP Insulation, Overall Beldfoil® Shield, LSZH Outer Jacket, CMG ISA/SP-50 Type A, PLTC, ITC, 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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Construction Details

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

Insulation			
Element	Material	Nom. Thickness	Color Code
Pair(s)	PP - Polypropylene	0.022 in (0.56 mm)	Blue & Orange

Outer Shield			
Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	20 AWG (7x28) TC

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	0.100 in (2.54 mm)	0.380 in (9.65 mm)

Overall Cable Diameter (Nominal):	0.380 in (9.65 mm)
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Electrical Characteristics

Electricals					
Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
Pair(s)	5.86 Ohm/1000ft (19.2 Ohm/km)	45.0 pF/ft	100 Ohm	66%	5.2 Amps per Conductor

Nom. Outer Shield DCR:	7.5 Ohm/1000ft (25 Ohm/km)
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High Frequency (Nominal/Typical)		
Element	Frequency [MHz]	Nom. Insertion Loss (Attenuation)
Pair(s)	0.039	0.091 dB/100ft

Voltage
UL Voltage Rating
300 V (CMG, PLTC-ER), 150 V (ITC-ER)

Mechanical Characteristics

Temperature	
UL Temperature	Operating

105°C	-20°C to +105°C
Max. Pull Tension:	60 lbs (27 kg)
Bulk Cable Weight:	77 lbs/1000ft (110 kg/km)

Standards and Compliance

Environmental Suitability:	Burial
Flammability / Reaction to Fire:	UL 1685 UL Loading, FT4, 1202, IEC 60332-3-22
NEC / UL Compliance:	Article 725, Article 727, Article 800, CMG, ITC, PLTC
CEC / C(UL) Compliance:	CMG
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)

History

Update and Revision:	Revision Number: 0.403 Revision Date: 04-30-2024
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Part Numbers

Variants

Item #	Color	UPC	Footnote
3076T 0105000	Black	612825140276	C N

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