



Product: [3076T](#)

Fieldbus, 1 Pr #18 Str TC, PP Ins, OS, LSZH Jkt, CMG ISA/SP-50 Type A, PLTC-ER, ITC-ER, 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-ER, ITC-ER, 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	Number of Element	AWG	Stranding	Material
Pair(s)	1	18	7x26	TC - Tinned Copper

Insulation

Element	Material	Thickness	Color Code
Pair(s)	PP - Polypropylene	0.022 in	Blue & Orange

Outer Shield Material

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

Outer Jacket Material

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

Cable Diameter (Nominal):	0.380 in
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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 (148 pF/m)	100 Ohm	66%	5.2 Amps per Conductor

Nom. Outer Shield DCR:	7.5 Ohm/1000ft
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High Frequency (Nominal/Typical)

Element	Frequency [MHz]	Nom. Insertion Loss
Pair(s)	0.039 MHz	0.091 dB/100ft

Voltage

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

Mechanical Characteristics

Temperature

UL Rating	Operating
105°C	-20°C to +105°C

Max. Pull Tension:	60 lbs
Bulk Cable Weight:	77 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Burial
Flammability / Fire Resistance:	UL 1685 UL Loading, FT4, 1202, 60332-3-22 (Category A)
NEC / UL Compliance:	Article 725, Article 727, Article 800, CMG, ITC-ER, PLTC-ER
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)
Other Standard Compliance(s):	ISA/SP-50 Type A, ABS Type Approval Certification 14-HS1221997

History

Update and Revision:	Revision Number: 0.261 Revision Date: 05-26-2021
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