



Product: [3076Z](#)

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

Product Description

Fieldbus, 1 Pair 18AWG (7x26) Tinned Copper, PP Insulation, Overall Beldfoil® Shield, LSZH-TS 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, Thermoset)	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. Characteristic Impedance	Nom. Velocity of Prop.
Pair(s)	100 Ohm	66%

High Frequency (Nominal/Typical)

Element
Pair(s)

Voltage

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

Mechanical Characteristics

Temperature

UL Temperature
105°C

Standards and Compliance

Environmental Suitability:	Burial
NEC / UL Compliance:	Article 725, Article 727, Article 800, CMG, ITC, PLTC
CEC / C(UL) Compliance:	CMG
Other Standard Compliance(s):	ISA/SP-50 Type A

History

Update and Revision:	Revision Number: 0.275 Revision Date: 02-03-2025
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Part Numbers

Variants

Item #	Color	UPC	Footnote
3076Z 0105000	Black	612825140283	C N

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