



Part Number: 3076F

ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS PA, (1 pr) 18 AWG (7x26)
TC, PO/PVC, Foil Shld, CMG, CMX, PLTC-ER

Product Description

One 18 AWG pair stranded (7x26) tinned copper conductors, polyolefin insulation, overall Beldfoil® shield (100% coverage), PVC jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
18	7x26	TC - Tinned Copper	0.045 in	1

Total Number of Conductors: 2

Insulation

Material

PO - Polyolefin

Outer Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	TC - Tinned Copper	20	7x28 mm

Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.28 in

Electrical Characteristics

Capacitance

Max. Capacitance Unbalance	Nom. Capacitance Conductor to Shield	Nom. Mutual Capacitance
1.2 pF/ft	45 pF/ft	24 pF/ft

Construction and Dimensions

Stranding

Lay Length

0.091 mm

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
5.86 Ohm/1000ft	7.5 Ohm/1000ft

Impedance

Nominal Characteristic Impedance

100 Ohms

High Frequency (Nominal/Typical)

Nom. Insertion Loss

0.08 dB/100ft

Delay

Nominal Velocity of Propagation (VP) [%]

66 %

High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Max./Min. Input Impedance (unFitted)
0.031 MHz	0.091 dB/100ft	100 Ohm
0.039 MHz		
0.039 MHz		

Current

Element Max. Recommended Current [A]

Per Conductor 5.2 Amps

Inductance

Nominal Inductance

0.19 µH/ft

Voltage

UL Voltage Rating

300V RMS

Oil Resistance: Yes

UV Resistance: Yes

Applicable Standards & Environmental Programs

CEC/C(UL) Specification:	CMG
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
CPR Euroclass:	Eca
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Standards

IEEE Specification:	1202, IEEE 383 Vertical Tray Flame Test (70,000 BTU)
NEC Articles:	725, 727, 800
NEC/(UL) Specification:	CMR, PLTC-ER, ITC-ER

Flame Test

C(UL) Flammability:	FT4
IEEE Flammability:	1202
UL Flammability:	UL1666 Riser

Safety

UL Voltage Rating: 300 V RMS

Suitability

Suitability - Burial: Yes - UL

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

Mechanical Characteristics

Operating Temp Range:	-40°C To +105°C
Bulk Cable Weight:	38(lbs/1000ft)
Max Recommended Pulling Tension:	60(lbs)
Min Bend Radius/Minor Axis:	2.5(in)

Temperature Range

UL Temp Rating:	105°C
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Plenum/Non-Plenum

Plenum (Y/N):	No
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History

Variants

Item #	Color
3076F 0061000	BLUE, LIGHT
3076F 0031000	ORANGE
3076F 003250	ORANGE
3076F 0032500	ORANGE
3076F 003500	ORANGE
3076F 0035000	ORANGE
3076F 00310000	ORANGE

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