



Part Number: 3076F

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

Product Description

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

Product Specifications

Technical Specifications

Construction and Dimensions

Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
18	7x26	TC - Tinned Copper	0.046 in	1
Total Number of Conductors:				2

Insulation:

Material
PO - Polyolefin

Stranding:

Lay Length
0.091 mm

Cabling 1:

Lay Length	Twists	Filler
2.25 in	5.3 twist/ft	Polypropylene

Outershield 1:

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

Outerjacket 1:

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.28 in

Electrical Characteristics**Conductor DCR:**

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

Capacitance:

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

Other Electrical Characteristic 1:	Max Propagation Delay Change From 7.812 kHz to 39.06 kHz: 518 pS/ft
Other Electrical Characteristic 2:	31.25 KBits/sec

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

300 V RMS

Use

Suitability - Oil Resistance:

Yes

Suitability - Burial:

Yes - UL

Suitability - Indoor:

Yes

Suitability - Outdoor:

Yes

Suitability - Sunlight Resistance:

Yes

Max Recommended Pulling Tension:

60 lbs

Safety

C(UL) Flammability:

FT4

IEEE Flammability:

1202

UL Flammability:

UL1666 Riser

Temperature Range

Operating Temp Range:

-40°C To +105°C

UL Temp Rating:

105°C

Mechanical Characteristics

Min Bend Radius/Minor Axis:

2.5 in

Part Number

Plenum (Y/N):

No

Standards

CA Prop 65 (CJ for Wire & Cable):

CA Prop 65 (CJ for Wire & Cable)

CEC/C(UL) Specification:

CEC/C(UL) Specification

MII Order #39 (China RoHS):

MII Order #39 (China RoHS)

NEC Articles:

NEC Articles

NEC/(UL) Specification:

NEC/(UL) Specification

Other Specification:	Other Specification
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	EU CE Mark

History

Notes:	Fieldbus: Orange jacket. Profibus PA: Intrinsically Safe Blue jacket. Jacket diameter tolerance: +/- .010
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Product Variants

Part Number	Color	Put-Up Type	Length
3076F 0031000	ORANGE	Reel	1000 ft
3076F 0032500	ORANGE	Reel	2500 ft
3076F 003250	ORANGE	Reel	250 ft
3076F 0035000	ORANGE	Reel	5000 ft
3076F 003500	ORANGE	Reel	500 ft
3076F 0061000	BLUE, LIGHT	Reel	1000 ft

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