



**Part Number:** 183076F

FOUNDATION Fieldbus/ PROFIBUS PA, (1 pr) 18 AWG (7x26) TC, PO/PVC/PVC, Foil Shld, Alum Armor, PLTC

## Product Description

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

## Product Specifications

## Technical Specifications

### Construction and Dimensions

#### Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
18	7x26	TC - Tinned Copper	0.048 in	1
<b>Total Number of Conductors:</b>				2

#### Insulation:

Material
PO - Polyolefin

#### Color Chart 1:

Number	Color
1	Blue & Orange

#### Stranding:

Lay Length
2.25 in

### 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	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.565 in	0.055 mm

### Outerjacket 2:

Material
PVC - Polyvinyl Chloride

### Armor:

Type of Armor	Material	Thickness of Armoring Tape	Diameter over Armoring
Continuously Corrugated	Aluminum	0.025 mm	0.455 mm

## Electrical Characteristics

### Conductor DCR:

Individual Pair Nominal Shield DCR	Nominal Conductor DCR
7.5 Ohm/1000ft	5.86 Ohm/1000ft

### Capacitance:

Max. Average Capacitance Unbalanced	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 pF/ft
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Other Electrical Characteristic 2:	31.25 KBits/sec
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### 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)
	0.091 db/100ft	100 Ohm
0.03125 MHz		
0.039 MHz		
0.039 MHz		

#### Current:

Element	Max. Recommended Current [A]
Per Conductor	5.2 Amps

#### Inductance:

Nominal Inductance
0.19 $\mu$ H/ft

#### Voltage:

UL Voltage Rating
300 V RMS

#### Use

Suitability - Oil Resistance:	Yes
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes
Max Recommended Pulling Tension:	59 lbs

#### Safety

UL Flammability:	UL1685 UL Loading
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#### Temperature Range

Operating Temp Range:	-40°C To +105°C
UL Temp Rating:	105°C

#### Mechanical Characteristics

Min Bend Radius/Minor Axis:	6.8 in
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#### Part Number

Plenum (Y/N):	No
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## 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/(UL) Specification:	NEC/(UL) Specification
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	EU CE Mark

## History

## Product Variants

Part Number	Color	Put-Up Type	Length
183076F 0032000	ORANGE	Reel	2000 ft

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