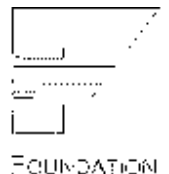


## 183076F Multi-Conductor - Cont. Armor DataBus® ISA/SP-50 FOUNDATION Fieldbus/Profibus



For more Information  
please call

1-800-Belden1

**General Description:**

18 AWG stranded (7x26) tinned copper conductors, polyolefin insulation, Beldfoil® shield (100% coverage), tinned copper drain wire, binder, oil & sunlight resistant PVC inner jacket, continuous corrugated aluminum armor, PVC outer jacket.

**Physical Characteristics (Overall)****Conductor****AWG:**

# Pairs	AWG	Stranding	Conductor Material	Dia. (mm)
1	18	7x26	TC - Tinned Copper	1.2192

Total Number of Conductors: 2

**Insulation****Insulation Material:**

Insulation Material
PO - Polyolefin

**Outer Shield****Outer Shield Material:**

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

**Outer Shield Drain Wire AWG:**

AWG	Stranding	Drain Wire Conductor Material
20	7x28	TC - Tinned Copper

**Outer Jacket****Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket over Armor (y/n): Y

**Outer Jacket over Armor****Outer Jacket Material Over Armor:**

OJ Over Armor Material
PVC - Polyvinyl Chloride

Outer Jacket Wall Thickness Over Armor: .055

**Armor**

Armor Type: Continuously Corrugated

Armor Material: Aluminum

Armor Thickness: .025

Diameter over Armor: .455

**Overall Cable**

Overall Nominal Diameter: 14.351 mm

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## Pair

## Pair Color Code Chart:

Number	Color
1	Blue & Orange

## Pair Lay Length &amp; Direction:

Lay Length (mm)
57.15

## Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +105°C
UL Temperature Rating:	105°C
Bulk Cable Weight:	215.789 Kg/Km
Max. Recommended Pulling Tension:	262.444 N
Min. Bend Radius/Minor Axis:	172.720 mm

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; Environmental Programs

NEC/(UL) Specification:	ITC, PLTC
CEC/C(UL) Specification:	CM
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/18/2006
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

## Flame Test

UL Flame Test:	UL1685 UL Loading
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## Suitability

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

## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Electrical Characteristics (Overall)

## Unaveraged Impedance:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Impedance (Ohm)
	.03125			100

## Nom. Inductance:

Inductance (µH/m)
0.62339

## Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
147.645

## METRIC MEASUREMENT VERSION

## 183076F Multi-Conductor - Cont. Armor DataBus® ISA/SP-50 FOUNDATION Fieldbus/Profibus

## Nom. Mutual Capacitance:

Capacitance (pF/m)
78.744

## Maximum Average Capacitance Unbalance:

Capacitance (pF/m)
3.937

## Nominal Velocity of Propagation:

VP (%)
66

## Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
19.2267

Ind. Pair Nominal Shield DC Resistance @ 20      24.608 Ohm/km  
 Deg. C:

## Nom. Attenuation:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Attenuation (dB/100m)
	.039			0.26248

## Max. Attenuation:

()	Freq. (MHz)	Attenuation (dB/100m)
0.298571	0.039	0.299

## Max. Operating Voltage - UL:

Voltage
300 V RMS

## Max. Recommended Current:

Description	Current
Per Conductor	5.2 Amps

Other Electrical Characteristic 1:      Max Propagation Delay Change From 7.812 kHz to 39.06 kHz: 518 pF/ft

Other Electrical Characteristic 2:      31.25 KBits/sec

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
183076F 0032000	2,000 FT	328.000 LB	ORANGE	C Z	ARMORED TW PR #18 PP FS PVC

## Notes:

C = CRATE REEL PUT-UP.

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

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