



Part Number: 1327A

ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS, (2 pr) 18 AWG (7x26) TC, PO/PVC, IS/OS, CMG, CMX, PLTC-ER

Product Description

Two 18 AWG pairs stranded (7x26) tinned copper conductors, polyolefin insulation, individual plus overall Beldfoil® shield (100% coverage), oil-resistant PVC jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
18	7x26	TC - Tinned Copper	0.048 in	2

Conductor Count:	4
AWG Size:	18

Insulation

Material
PO - Polyolefin

Color Chart

Number	Color
1	Blue & Orange Numbered 1
2	Blue & Orange Numbered 2

Inner Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire AWG
Tape	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	20

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	18	7x26 mm

Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.44 in

Construction and Dimensions

Stranding

Lay Length	Twists
2.25 in	5.3 twist/ft

Electrical Characteristics

Conductor DCR

Individual Pair Nominal Shield DCR	Nominal Conductor DCR	Nominal Outer Shield DCR
7.5 Ohm/1000ft	5.86 Ohm/1000ft	4.9 Ohm/1000ft

Capacitance

Max. Capacitance Unbalance	Nom. Capacitance Conductor to Shield	Nom. Mutual Capacitance

1.2 pF/ft	45 pF/ft	24 pF/ft
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Inductance

Nominal Inductance
0.19 µH/ft

Impedance

Nominal Characteristic Impedance
100 Ohm

High Frequency (Nominal/Typical)

Nom. Insertion Loss
0.08 dB/100ft

Delay

Nominal Velocity of Propagation (VP) [%]
66 %

High Freq

Max. Insertion Loss (Attenuation)	Max./Min. Input Impedance (unFitted)
0.091 dB/100ft	100 Ohm

Current

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

Voltage

UL Voltage Rating
300V RMS

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

Temperature Range

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

Mechanical Characteristics

Oil Resistance:	Yes
UV Resistance:	Yes
Max Recommended Pulling Tension:	137 lbs
Min Bend Radius/Minor Axis:	4.4 in

Standards

NEC/(UL) Specification:	CMG, CMX-Outdoor, ITC, PLTC-ER
CEC/C(UL) Specification:	CMG

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	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
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Burial:	Yes - UL
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

Suitability - Sunlight Resistance:	Yes
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Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 FT4 Loading
ISO/IEC Flammability:	60332-3-24 (Category C)
IEEE Flammability:	1202

Part Number

Plenum (Y/N):	No
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Variants

Item #	Color	Footnote
1327A 0061000	BLUE, LIGHT	C
1327A 0031000	ORANGE	C

Footnote:	C - CRATE REEL PUT-UP.
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