



**Part Number: 1327A**

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

[Request Sample](#)

## 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
Conductor Size:	18 AWG

#### 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/Polyester	Beldfoil®	100 %	TC - Tinned Copper	18	7x26 mm

#### Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.44 in

### Construction and Dimensions

#### Stranding

Twists
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
-----------	----------	----------

#### Inductance

<b>Nominal Inductance</b>
0.19 $\mu$ H/ft

#### Impedance

<b>Nominal Characteristic Impedance</b>
100 Ohm

#### High Frequency (Nominal/Typical)

<b>Nom. Insertion Loss</b>
0.08 dB/100ft

#### Delay

<b>Nominal Velocity of Propagation (VP) [%]</b>
66 %

#### High Freq

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

#### Current

<b>Element</b>	<b>Max. Recommended Current [A]</b>
Per Conductor	5.2 Amps

#### Voltage

<b>UL Voltage Rating</b>
300 V 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
------------------------------------	-----

## Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 FT4 Loading
ISO/IEC Flammability:	60332-3-24 (Category C)
IEEE Flammability:	1202
UL voltage rating:	300 V RMS

## Plenum/Non-Plenum

Plenum (Y/N):	No
---------------	----

## Part Number

### Variants

Item #	Color	Footnote
1327A 0061000	Blue, Light	C
1327A 0031000	Orange	C

Footnote:	C - CRATE REEL PUT-UP.
-----------	------------------------

© 2018 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.