



**Product:** [1327A](#)

Fieldbus, 2 Pr #18 Str TC, PO Ins, IS/OS, PVC Jkt, CMG

[Request Sample](#)

**Product Description**

Fieldbus, 2 Pair 18AWG (7x26) Tinned Copper, PO Insulation, Individual & Overall Beldfoil® Shield, Orange PVC Outer Jacket, CMG

**Technical Specifications**

**Product Overview**

Suitable Applications:	harsh environment digital and serial two-way communication, oil and gas extraction and refining sites, petrochemical, Profibus process automation or Foundation FieldBus process automation, extreme temperature environments, exposure to humidity/moisture, dust, and oil, remote locations long distance applications, etc.
------------------------	--

**Physical Characteristics (Overall)**

**Conductor**

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

Conductor Count:	4
------------------	---

**Insulation**

Material
PP - Polypropylene

**Color Chart**

Number	Color
1	Blue, Orange and Numbered
2	

**Inner Shield Material**

Type	Material	Material Trade Name	Coverage [%]	Drainwire AWG
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	20

**Outer Shield Material**

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	18	7x26

**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

Nominal Inductance
0.19 $\mu$ H/ft

#### Impedance

Nominal Characteristic Impedance
100 Ohm

#### High Frequency (Nominal/Typical)

Nom. Insertion Loss
0.08 dB/100ft

#### 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 per Conductor

#### Voltage

UL Voltage Rating
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. Pull Tension:	137 lbs
Min Bend Radius/Minor Axis:	4.4 in

#### Standards

NEC Articles:	Article 725, Article 727, Article 800
NEC/(UL) Compliance:	CMG, CMX-Outdoor, ITC, PLTC-ER
CEC/C(UL) Compliance:	CMG

#### Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
MII Order #39 (China RoHS):	Yes

#### Suitability

Suitability - Burial:	Yes - UL
-----------------------	----------

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

## Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 FT4 Loading
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	Putup Type	Length	UPC
1327A 0061000	Blue, Light	Reel	1,000 ft	612825112020
1327A 0031000	Orange	Reel	1,000 ft	612825112013

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

## History

Update and Revision:	Revision Number: 0.345 Revision Date: 03-16-2021
----------------------	--

© 2021 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.