

Product: <u>3076ENH</u>

Profibus PA, 1PR #18 Str TC, PO ins, OS, LSNH Jkt, 300 V

Product Description

Profibus PA, 1 Pair AWG 18 Tinned Copper - Stranded, Polyolefin (PO, PE, PP) insulation, Foil(s) or Copper Tape(s) shielding, LSZH / FRNC jacket , 300 V

Technical Specifications

Product Overview

Environmental Space:	Indoor - Euroclass Eca
Suitable Applications:	Profibus PA or Foundation FieldBus PA

Physical Characteristics (Overall)

conduc			
AWG	Stranding	Material	No. of Pairs
18	7x26	TC - Tinned Copper	1
Condu	ctor Count:		
Total Number of Pairs:			

Insulation

	Material	Nominal Diameter	Diameter +/- Tolerance	Nominal Wall Thickness
P	D - Polyolefin	2.55 mm	0.05 mm	0.67 mm

Color Chart

 Number
 Color

 Pair 1
 White & Black

Outer Shield Material

Туре	Material	Thickness of Foil	Drainwire Material	Drainwire AWG
Таре	Aluminum/Polyester	9 / 23 µm	TC - Tinned Copper	AWG20/7

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
LSZH / FRNC (UV stabilised)	7.5 mm	1.15 mm

Electrical Characteristics

Conductor	DCR
-----------	-----

Max. Conductor DCR	Max. Outer Shield DCR
20.5 Ohm/km	26 Ohm/km

Capacitance

Max. Capacitance Conductor to Conductor	Max. Capacitance Conductor to Shield
80 pF/m	155 pF/m

Inductance

Nominal Inductance
0.62 uH/m

Impedance

Frequency [MHz]	Nominal Characteristic Impedance	Nominal Characteristic Tolerance
0.03125 MHz	100 Ohm	5 Ohm

Delay

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

High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)
0.01 MHz	0.2 dB/100m
0.039 MHz	0.3 dB/100m
0.1 MHz	0.6 dB/100m
0.5 MHz	2.8 dB/100m
1 MHz	3.7 dB/100m

Voltage

Voltage Rating [V]

300 V

Temperature Range

Installation Temp Range:	-15°C To +80°C
Storage Temp Range:	-45°C To +80°C
Operating Temp Range (Flexible Install):	-15°C To +80°C
Operating Temp Range (Fixed Install):	-45°C To +80°C

Mechanical Characteristics

Oil Resistance:	IEC 60811-404	
Max Recommended Pulling Tension:	50 N	
Min Bend Radius During Installation:	100 mm	

Standards

ISO/IEC Compliance:	IEC 61158-2
CPR Euroclass:	Eca
CENELEC Compliance:	EN 50290-2-27

2005-01-01

Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):

Flammability, LS0H, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-1-2 and IEC 60332-3-24
Amount of Halogen acc. to IEC 60754-1 & EN50267-1:	Zero

Part Number

Variants

ltem #	Color	Length
3076ENH.001000	Blue	1,000 m
3076ENH.00500	Blue	500 m
3076ENH.041000	Blue	1,000 m
3076ENH.011000	Orange	1,000 m
3076ENH.012050	Orange	2,050 m
3076ENH.01500	Orange	500 m
3076ENH.K11000	Orange	1,000 m
3076ENH.K1500	Orange	500 m

History

Update and Revision:

Revision Number: 0.177 Revision Date: 02-14-2020

© 2020 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 regulators based on their individual usage of the product.