

Product: [3079ANH](#) 

Profibus DP, 1PR #22 Sol BC, PO ins, F/B, LSNH Jkt, 300 V



Product Description

Profibus DP, 1 Pair AWG 22 Bare Copper - Solid, Polyolefin (PO, PE, PP) insulation, Foil + Braid(s) shielding, LSZH / FRNC jacket , 300 V

Technical Specifications

Product Overview

Environmental Space:	Indoor - Euroclass Eca
Suitable Applications:	Instrumentation and computer cable; For data transmission applications such as Profibus

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
22	Solid	BC - Bare Copper	1

Conductor Count:	2
Total Number of Pairs:	1

Insulation

Material	Nominal Diameter	Diameter +/- Tolerance
FPE - Foamed Polyethylene	2.51 mm	0.09 mm

Color Chart

Number	Color
Pair 1	Red & Green

Outer Shield Material

Type	Material	Material Trade Name	Coverage [%]	Thickness of Foil
Tape	Aluminum/Polyester	Beldfoil® (Z-Fold®)		25 / 50 µm
Braid	TC - Tinned Copper		65 %	

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
LSZH / FRNC	8 mm	1.1 mm

Construction and Dimensions

Cabling

Description	Filler
1 pair and 2 fillers twisted to cable core	Flame retardant Polypropylene (2x) (Blue, 2.54 mm)

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
52 Ohm/km

Capacitance

Max. Capacitance Unbalance	Nom. Capacitance Conductor to Conductor
1 pF/m	27.9 pF/m

Impedance

Frequency [MHz]	Nominal Characteristic Impedance	Nominal Characteristic Tolerance
3 - 20 MHz	150 Ohm	15 Ohm

Delay

Nominal Velocity of Propagation (VP) [%]
78 %

High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)
0.2 MHz	0.9 dB/100m
4 MHz	2.2 dB/100m
16 MHz	4.5 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 60811-2-1
Max Recommended Pulling Tension:	220 N
Min Bend Radius During Installation:	80 mm

Standards

CPR Euroclass:	Eca
CENELEC Compliance:	EN 50290-2-27

Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	1998-01-01
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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

Item #	Color	Length
3079ANH.001000	Chrome	1,000 m
3079ANH.00500	Chrome	500 m
3079ANH.011000	Violet	1,000 m
3079ANH.02500	Violet	500 m
3079ANH.K11000	Violet	1,000 m

History

Update and Revision:	Revision Number: 0.166 Revision Date: 01-31-2020
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