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

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
PE - Polyethylene (Foam)	2.51 mm	0.09 mm

Color Chart

Number	Color
Pair 1	Red & Green

Outer Shield

Type	Material	Material Trade Name	Coverage [%]	Thickness of Foil
Tape	Bi-Laminate (Alum+Poly)	Beldfoil® (Z-Fold®)	100%	25 / 50 µm
Braid	Tinned Copper (TC)		65%	

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	8 mm	1.1 mm

Construction and Dimensions

Cabling

Description	Filler
1 pair and 2 fillers twisted to cable core	Flame retardant Polypropylene (2x) (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 Frequency

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 Temperature Range:	-15°C To +80°C
Storage Temperature 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. Pull Tension:	220 N
Min. Bend Radius During Installation:	80 mm

Standards

CPR Euroclass:	Eca
CENELEC Compliance:	EN 50290-2-20

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Eca

Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-1-2, IEC 60332-3-24
IEC 60754-1 - Halogen Amount:	Zero
IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity:	2.5 µS/mm
IEC 60754-2 - Halogen Acid Gas Amount - Min. pH:	4.3

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	EAN
3079ANH.00500	Chrome	Reel	500 m	8719605005755
3079ANH.001000	Chrome	Reel	1,000 m	8719605005748
3079ANH.02500	Violet	Reel	500 m	8719605005779
3079ANH.011000	Violet	Reel	1,000 m	8719605005762

History

Update and Revision:	Revision Number: 0.245 Revision Date: 03-20-2024

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