



Product: [123079A](#)

Profibus, 1 Pr #22 Sol BC, PE Ins, OS+TC Brd, PVC jkt, AIA, PVC Jkt, PLTC CM Profibus DP

Product Description

Profibus, 1 Pair 22AWG (Solid) Bare Copper, PE Insulation, Overall Beldfoil®+Tinned Copper Braid(65%) Shield, PVC Inner Jacket, Aluminum Interlock Armor, PVC Outer Jacket, PLTC CM SUN RES Profibus DP

Technical Specifications

Product Overview

Suitable Applications:	exposure to rodent, crush, or cut through force, harsh environment, outdoors, data transmission applications such as Profibus DP or PA, Instrumentation and computer cable, etc. exposure to temperature extremes, humidity/moisture, dust, and oil.
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Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	1	22 AWG	Solid	BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code	Notes
Pair(s)	PE - Polyethylene (Foam)	0.035 in (0.89 mm)	0.099 in (2.5 mm)	Red & Green	Flame Retardant, Foam w/ skin

Outer Shield

Shield Type	Material	Coverage
Tape	Bi-Laminate (Alum+Poly)	100%
Braid	Tinned Copper (TC)	65%

Inner Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.0425 in (1.08 mm)	0.315 in (8.00 mm)

Armor

Armor Type & Material	Armor Thickness	Armor Material Diameter
AIA - Aluminum Interlock Armor	0.025 in (0.64 mm)	0.510 in (13.0 mm)

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.045 in (1.1 mm)	0.600 in (15.2 mm)

Overall Cable Diameter (Nominal):	0.600 in (15.2 mm)
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Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
Pair(s)	17.2 Ohm/1000ft	150 Ohm	78%	2.3 Amps per Conductor at 25°C

Nom Outer Shield DCR@Cond DCR1-cnvr:	3.9 Ohm/1000ft (13 Ohm/km)
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High Frequency (Nominal/Typical)

Element	Frequency [MHz]	Nom. Insertion Loss (Attenuation)
Pair(s)	0.2	0.27 dB/100ft
	4	0.67 dB/100ft
	16	1.37 dB/100ft

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)
0.2	1.1 dB/100m
4	2.65 dB/100m
16	5.4 dB/100m

Voltage

UL Voltage Rating
300 V

Mechanical Characteristics

Temperature

UL Temperature	Operating
60°C	-30°C to +75°C

Bend Radius

Stationary Min.	Installation Min.
2.5 in (64 mm)	2.5 in (64 mm)

Max. Pull Tension:	200 lbs (91 kg)
Bulk Cable Weight:	158 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance
Flammability / Reaction to Fire:	UL 1685 UL Loading, IEEE 1202
NEC / UL Compliance:	Article 725, Article 800, CM, PLTC
CEC / C(UL) Compliance:	CMG, HLBCD
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.107 Revision Date: 02-15-2024
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