

Product: 3079A

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

Product Description

Profibus, 1 Pair 22AWG (Solid) Bare Copper, PE Insulation, Overall Beldfoil®+Tinned Copper Braid(65%) Shield, PVC Outer Jacket, PLTC CMG AWM 20201 SUN RES Profibus DP

Technical Specifications

Product Overview

Suitable Applications:	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.

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%

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.043 in (1.1 mm)	0.315 in (8.00 mm)

Table Notes:	Jacket OD +/- 0.010
Overall Cable Diameter (Nominal):	0.315 in (8.00 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
Pair(s)	18.9 Ohm/1000ft	150 Ohm	78%	2.3 Amps per Conductor at 25ºC

Nom. Outer Shield DCR:	5.2 Ohm/1000ft (17 Ohm/km)

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
600 V (CMG, PLTC), 300 V (AWM 20201)

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Min.
2.4 in (61 mm)	2.4 in (61 mm)

Max. Pull Tension:	50 lbs (23 kg)
Bulk Cable Weight:	52 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance
Flammability / Reaction to Fire:	UL 1685 FT4 Loading, FT4, IEEE 1202, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca; CPR UKCA Class: Eca
NEC / UL Compliance:	Article 725, Article 800, CM, CMX-Outdoor, PLTC, ITC
AWM Compliance:	AWM 20201
CEC / C(UL) Compliance:	CMG
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)
UK Regulation Compliance:	UKCA Mark

Product Notes

Notes:	Siemens Sinec L2 Cable. For CPE jacketed version order Part No. YR45047. For LSZH (FRNC) jacketed version, order Part No. 3079T or YR44731.

History

Update and Revision:	Revision Number: 0.526 Revision Date: 08-21-2023

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
3079A 0601000	Chrome	Reel	1,000 ft	612825140382	C
3079A 0602000	Chrome	Reel	2,000 ft	612825140399	C
3079A 0071000	Violet	Reel	1,000 ft	612825140344	C
3079A 0072000	Violet	Reel	2,000 ft	612825140351	C
3079A 0075000	Violet	Reel	5,000 ft	612825140375	

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