



Product: [3079A](#)

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

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Product Description

Profibus, 1 Pair 22AWG (Solid) Bare Copper, PO 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, where multiple cable runs are required, 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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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
22	Solid	BC - Bare Copper	0.026 in	1

Conductor Count: 2

Insulation

Material
PE - Polyethylene (Foam)

Color Chart

Number	Color
1	Red & Green

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Alum / Poly	Beldfoil®	100 %
Braid	2	TC - Tinned Copper		65 %

Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.315 in

Electrical Characteristics

Conductor DCR

Individual Pair Nominal Shield DCR	Nominal Conductor DCR
3.9 Ohm/1000ft	16 Ohm/1000ft

Capacitance

Nom. Mutual Capacitance
8.5 pF/ft

Inductance

Nominal Inductance
0.282 μ H/ft

Impedance

Nominal Characteristic Impedance

150 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
0.2 MHz	0.27 dB/100ft
4 MHz	0.67 dB/100ft
16 MHz	1.37 dB/100ft

Delay

Nominal Velocity of Propagation (VP) [%]

78 %

High Freq

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

Current

Element	Max. Recommended Current [A]
Per Conductor	2.3 Amps

Voltage

UL Voltage Rating
300 V RMS (NEC Type CMG)
600 V RMS (UL AWM Style 20201)
300 V RMS (NEC Type PLTC)

Electrical Characteristics Notes:	Capacitance Unbalance @ 1 kHz: Less than 1000 pF/km
Other Electrical Characteristic 2:	Input Impedance/Unfitted Impedance 3 - 20 MHZ, 150 +-15 Ohms

Temperature Range

UL Temp Rating:	60°C
Operating Temp Range:	-30°C To +75°C

Mechanical Characteristics

Bulk Cable Weight:	52 lbs/1000ft
Max Recommended Pulling Tension:	50 lbs
Min Bend Radius/Minor Axis:	3.2 in

Standards

NEC/(UL) Specification:	CMG, PLTC
CEC/C(UL) Specification:	CMG
UL AWM Style:	UL Style 20201 (600 V 75°C)
CPR Euroclass:	Eca

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Sunlight Resistance:	Yes
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Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 FT4 Loading
CSA Flammability:	FT4
ISO/IEC Flammability:	IEC 60332-1-2
IEEE Flammability:	1202
UL voltage rating:	300 V RMS (NEC Type CMG)

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

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

Footnote:	C - CRATE REEL PUT-UP.
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Product Notes

Notes:	Siemens Sinec L2 Cable. For CPE jacketed version order Part No. YR45047. For LS0H (FRNC) jacketed version, order Part No. YR44731.
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History

Update and Revision:	Revision Number: 0.322 Revision Date: 04-28-2020
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