



**Product:** [3079A](#)

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

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## 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.
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### Construction Details

#### Conductor

Element	Number of Element	Size	Stranding	Material
Pair(s)	1	22 AWG	Solid	BC - Bare Copper

#### Insulation

Element	Material	Nom. Thickness	Color Code	Notes
Pair(s)	PE - Polyethylene (Foam)	0.035 in (0.89 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)

Overall Cable Diameter (Nominal):	0.315 in
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### Electrical Characteristics

#### Electricals

Element	Nom. Conductor DCR	Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
Pair(s)	16 Ohm/1000ft	150 Ohm	78%	2.3 Amps per Conductor

Nom. Outer Shield DCR:	3.9 Ohm/1000ft
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#### High Frequency (Nominal/Typical)

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

#### High Frequency

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

#### Voltage

UL Voltage Rating
300 V (CMG, PLTC), 600 V (UL AWM 20201)

### Mechanical Characteristics

#### Temperature

UL Temperature	Operating
75°C (UL AWM 20201)	-30°C to +75°C

#### Bend Radius

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

### Standards and Compliance

Environmental Suitability:	Indoor, Sunlight Resistance
Flammability / Reaction to Fire:	UL1685 FT4 Loading, FT4, 1202, IEC 60332-1-2
NEC / UL Compliance:	Article 725, Article 800, CMG, PLTC
AWM Compliance:	20201
CEC / C(UL) Compliance:	CMG
CPR Euroclass:	Eca
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)

### 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.
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### History

Update and Revision:	Revision Number: 0.406 Revision Date: 12-15-2021
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