



**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 (8.00 mm)
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### Electrical Characteristics

#### Electricals

Element	Nom. Conductor DCR	Nom. Characteristic Impedance	Nom. Velocity of Prop.	Max. Current
Pair(s)	16 Ohm/1000ft (52 Ohm/km)	150 Ohm	78%	2.3 Amps per Conductor

Nom. Outer Shield DCR:	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 (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

Max. Pull Tension:	50 lbs (23 kg)
Bulk Cable Weight:	52 lbs/1000ft (77 kg/km)

## Standards and Compliance

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

## 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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## Part Numbers

#### 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

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