



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

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

[Request Sample](#)

### 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 25°C

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, 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, ITC-ER, PLTC-ER
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: 0.487 Revision Date: 04-14-2023
----------------------	--

## 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	

© 2023 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.