



Part Number: 3079A

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

[Request Sample](#)

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

Physical Characteristics (Overall)

Conductor

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

Conductor Count:	2
Conductor Size:	22 AWG

Insulation

Material
FRFPE - Flame Retardant Foam Polyethylene

Color Chart

Number	Color
1	Red & Green

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum/Polyester	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 µH/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
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Sunlight Resistance:	Yes
------------------------------------	-----

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 FT4 Loading
CSA Flammability:	FT4

IEEE Flammability:	1202
UL voltage rating:	300 V RMS (NEC Type CMG)

Plenum/Non-Plenum

Plenum (Y/N):	No
---------------	----

Part Number

Variants

Item #	Color	Footnote
3079A 0601000	Chrome	C
3079A 0602000	Chrome	C
3079A 0071000	Violet	C
3079A 0072000	Violet	C
3079A 0075000	Violet	

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

Product Notes

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

© 2019 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.