



Product: [3079E](#)

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

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Product Description

Profibus, 1 Pair 22AWG (7x30) Bare Copper, PE Insulation, Overall Beldfoil®+Tinned Copper Braid(65%) Shield, PVC Outer Jacket, PLTC CMG 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	No. of Elements	Size	Stranding	Material
Pair(s)	1	22 AWG	7x30	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)	0.102 in (2.59 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)	0.314 in (7.98 mm)

Table Notes:	Jacket OD +/- 0.007
Overall Cable Diameter (Nominal):	0.314 in (7.98 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
Pair(s)	17.6 Ohm/1000ft	150 Ohm	78%	6 Amps per Conductor at 30°C

Nom. Outer Shield DCR:	6.32 Ohm/1000ft (20.7 Ohm/km)
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High Frequency (Nominal/Typical)

Element
Pair(s)

High Frequency

Max. Insertion Loss (Attenuation)
0.51 dB/100m
1.57 dB/100m

4.8 dB/100m

Voltage

UL Voltage Rating
300 V (CMG, PLTC)

Mechanical Characteristics

Temperature

UL Temperature	Operating
60°C	-20°C to +75°C

Bend Radius

Stationary Min.	Installation Min.
3.768 in (95.71 mm)	3.768 in (95.71 mm)

Max. Pull Tension:	41 lbs (19 kg)
Bulk Cable Weight:	39 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance
Flammability / Reaction to Fire:	UL 1685 FT4 Loading, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 725, Article 800, CMG, PLTC
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

History

Update and Revision:	Revision Number: 0.563 Revision Date: 02-03-2025
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
3079E B021000	Purple	Reel	1,000 ft	612825140412	C
3079E B025000	Purple	Reel	5,000 ft	612825140443	C Z

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