



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	Number of Element	Size	Stranding	Material
Pair(s)	1	22 AWG	7x30	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)	0.314 in (7.98 mm)

Cable Diameter (Nominal):	0.314 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
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	-30°C to +75°C

Bend Radius

Stationary Min.	Installation Min.
2.5 in (64 mm)	2.5 in

Max. Pull Tension:	50 lbs
Bulk Cable Weight:	39 lbs/1000ft

Standards and Compliance

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

History

Update and Revision:	Revision Number: 0.369 Revision Date: 10-13-2021
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