



Part Number: 3079E

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

Product Description

Profibus, 1 Pair 22AWG (7x30) Bare Copper, PO Insulation, Overall Beldfoil®+Tinned Copper Braid(65%) Shield, PVC Outer Jacket, PLTC CMG SUN RES Profibus DP

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
22	7x30	BC - Bare Copper	1

Conductor Count:	2
Total Number of Pairs:	1

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
0.267 µH/ft

Impedance

Nominal Characteristic Impedance
150 Ohm

Delay

Nominal Velocity of Propagation (VP) [%]
78 %

High Freq

Max. Insertion Loss (Attenuation)	Max./Min. Fitted Impedance
0.51 dB/100m	150 Ohm
1.57 dB/100m	
4.8 dB/100m	

Current

Element	Max. Recommended Current [A]
Per Conductor	2.3 Amps

Voltage

UL Description	UL Voltage Rating
CMG	300 V RMS

Electrical Characteristics Notes:	Capacitance Unbalance @ 1 kHz: Less than 1000 pF/km
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Temperature Range

UL Temp Rating:	60°C
Operating Temp Range:	-30°C To +75°C

Mechanical Characteristics

Bulk Cable Weight:	39 lbs/1000ft
Max Recommended Pulling Tension:	50 lbs
Min Bend Radius/Minor Axis:	3.2 in

Standards

NEC/(UL) Specification:	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 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
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Sunlight Resistance:	Yes
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Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 FT4 Loading
CSA Flammability:	FT4
ISO/IEC Flammability:	IEC 60332-1-2
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

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

Footnote:	C - CRATE REEL PUT-UP.
Footnote:	Z - FINAL PUT-UP MAY VARY (= OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

History

Update and Revision:	Revision Number: 0.301 Revision Date: 08-22-2019
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