



Part Number: 3079A

Profibus DP, (1 pr) 22 AWG Solid BC, FRFPE/PVC,
Foil+TC Braid Shld, CMG, PLTC

Product Description

One 22 AWG pair solid bare copper conductors, flame retardant foam polyethylene (FRFPE) insulation, overall Beldfoil® shield (100% coverage) plus a tinned copper braid shield (65% coverage), PVC jacket.

Product Specifications

Technical Specifications

Construction and Dimensions

Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
22	Solid	BC - Bare Copper	0.026 in	1
Total Number of Conductors:			2	

Insulation:

Material
FRFPE - Flame Retardant Foam Polyethylene

Color Chart 1:

Number	Color
1	Red & Green

Stranding:

Lay Length
2.75 in

Outershield 1:

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum Foil-Polyester Tape	Beldfoil®	100 %
Braid	2	TC - Tinned Copper		65 %

Outerjacket 1:

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	
Other Electrical Characteristic 1:	Capacitance Unbalance @ 1 kHz: Less than 1000 pF/km
Other Electrical Characteristic 2:	Input Impedance/Unfitted Impedance 3 - 20 MHZ, 150 +-15 Ohms

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
0.2 MHz	
4 MHz	
16 MHz	

Current:

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

Inductance:

Nominal Inductance
0.282 μ H/ft

Voltage:

UL Voltage Rating
300 V RMS (NEC Type CMG)
600 V RMS (UL AWM Style 20201)
300V RMS (NEC Type PLTC)

Use

Suitability - Sunlight Resistance:	Yes
Max Recommended Pulling Tension:	50 lbs

Safety

CSA Flammability:	FT4
IEEE Flammability:	1202
UL Flammability:	UL1685 FT4 Loading

Temperature Range

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

Mechanical Characteristics

Min Bend Radius/Minor Axis:	3.2 in
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Part Number

Plenum (Y/N):	No
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Standards

CA Prop 65 (CJ for Wire & Cable):	CA Prop 65 (CJ for Wire & Cable)
CEC/C(UL) Specification:	CEC/C(UL) Specification
MII Order #39 (China RoHS):	MII Order #39 (China RoHS)

NEC/(UL) Specification:	NEC/(UL) Specification
UL AWM Style:	AWM Specification
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	EU CE Mark

History

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

Part Number	Color	Put-Up Type	Length
3079A 0071000	VIOLET	Reel	1000 ft
3079A 0072000	VIOLET	Reel	2000 ft
3079A 0073600	VIOLET	Reel	3600 ft
3079A			
3079A 0075000	VIOLET	Reel	5000 ft
3079A 0601000	CHROME	Reel	1000 ft
3079A 0602000	CHROME	Reel	2000 ft
3079A 0603600	CHROME	Reel	3600 ft

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