



Part Number: 183079A

PROFIBUS DP, (1 pr) 22 AWG Solid BC, FRFPE/PVC, Foil+TC Braid Shld, Alum Armor, 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), continuously corrugated aluminum armor, 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	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.655 in	0.055 mm

Armor:

Type of Armor	Material	Thickness of Armoring Tape	Diameter over Armoring
Continuously Corrugated	Aluminum	0.025 mm	0.555 mm

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
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High Frequency (Nominal/Typical):

Nom. Insertion Loss
0.27 db/100ft
0.67 db/100ft
1.37 db/100ft

Delay:

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

High Freq:

Frequency [MHz]	Max. Insertion Loss (Attenuation)
	1.1 db/100m
20 MHz	2.65 db/100m
3 MHz	5.4 db/100m
0.2 MHz	
4 MHz	
16 MHz	
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 Description	UL Voltage Rating
CMG	300V
AWM	600V

Use

Max Recommended Pulling Tension:	50 lbs
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Safety

CSA Flammability:	FT4
UL Flammability:	UL1685 FT4 Loading

Temperature Range

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

Mechanical Characteristics

Min Bend Radius/Minor Axis:	7 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)
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	EU CE Mark

History

Product Variants

Part Number	Color	Put-Up Type	Length
183079A 0072000	VIOLET	Reel	2000 ft

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