



Part Number: 3082A

DeviceNet™, (1 pr) 15 AWG (19x28) TC, (1 pr) 18 AWG (19x30) TC, PVC-FPE/PVC, Foil+TC Braid Shld, CMG, PLTC-ER

Product Description

One 15 AWG stranded (19x28) tinned copper conductors, one 18 AWG stranded (19x30) tinned copper conductors, PVC insulation (power), foam polyethylene (FPE) insulation (data), individual foil shield (100% coverage) plus an overall tinned copper braid (65% coverage), PVC jacket.

Product Specifications

Technical Specifications

Construction and Dimensions

Conductor:

AWG	Stranding	Material	No. of Pairs
15	19x28	TC - Tinned Copper	1
18	19x30	TC - Tinned Copper	1
Total Number of Conductors:			4

Insulation:

Element	Material
15	PVC - Polyvinyl Chloride
18	FPE - Foam Polyethylene

Color Chart 1:

Number	Color
1 (15 AWG)	Red & Black
2 (18 AWG)	Blue & White

Stranding:

Lay Length
1 MHz

Innershield:

Type	Layer	Material	Coverage [%]
Tape	15 AWG Pair	Aluminum Foil-Polyester Tape	100 %
Tape	18 AWG Pair	Aluminum Foil-Polyester Tape	100 %

Outershield 1:

Type	Material	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Braid	TC - Tinned Copper	65 %	TC - Tinned Copper	18	19x30 mm

Outerjacket 1:

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.48 in	0.06 in

Electrical Characteristics

Conductor DCR:

Element	Nominal Conductor DCR	Nominal Outer Shield DCR
15 AWG	3.6 Ohm/1000ft	1.8 Ohm/1000ft
18 AWG	6.9 Ohm/1000ft	

Capacitance:

Element	Nom. Capacitance Conductor to Conductor
18 AWG Pair Only	12 pF/ft

Delay:

Max. Delay	Max. Delay Description	Nominal Velocity of Propagation (VP) [%]	Nominal Velocity of Propagation (VP) Description
1.36 ns/ft	18 AWG Pair Only	75 %	18 AWG Pair Only

High Freq:

Element	Frequency [MHz]	Max. Insertion Loss (Attenuation)	Max./Min. Input Impedance (unFitted)
18 AWG Pair Only		0.13 db/100ft	120 Ohm
18 AWG Pair Only		0.25 db/100ft	
		0.36 db/100ft	
	0.125 MHz		
	0.5 MHz		
	1 MHz		

Current:

Element	Max. Recommended Current [A]
15 AWG	8.0 Amps
18 AWG	5.0 Amps

Inductance:

Element	Nominal Inductance
15 AWG Pair Only	0.174 μ H/ft

Voltage:

UL Voltage Rating
300 V RMS (CL2, CMG)
600 V RMS (UL AWM Style 20201)
300 V RMS (C(UL) AWM)

Use

Suitability - Oil Resistance:	Yes
Suitability - Sunlight Resistance:	Yes
Max Recommended Pulling Tension:	190 lbs

Safety

CSA Flammability:	FT4
UL Flammability:	UL1685 FT4 Loading

Temperature Range

Operating Temp Range:	-20°C To +75°C
UL Temp Rating:	75°C

Mechanical Characteristics

Min Bend Radius/Minor Axis:	4.8 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
Other Specification:	Other Specification
UL AWM Style:	AWM Specification
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	EU CE Mark

History

Notes:	Thick. Meter marks on jacket to aid users in installation. ODVA DeviceNet is an Open DeviceNet Vendor Associatio, Inc. Trademark. Jacket printed "1PR16" instead of "1PR15" due to UL requirements for CMG Listing.
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Product Variants

Part Number	Color	Put-Up Type	Length
3082A T5U2000	GRAY T5U	Reel	2000 ft
3082A T5U3000	GRAY T5U	Reel	3000 ft
3082A T5U500	GRAY T5U	Reel	500 ft

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