



Part Number: 7897A

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

Product Description

One 15 AWG pair stranded (19x28) tinned copper conductors, one 18 AWG pair stranded (19x30) tinned copper conductors, PVC/Nylon insulation (power), FEP insulation (data), individual foil shield (100% coverage) plus an overall tinned copper braid shield (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/Nylon - Polyvinyl Chloride/Nylon
18	FEP - Fluorinated Ethylene Propylene

Color Chart 1:

Number	Color
15 AWG Pair	Red & Black
18 AWG Pair	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	0.46 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./Min. Input Impedance (unFitted)
18 AWG Pair Only		120 Ohm
18 AWG Pair Only		
	0.5 MHz	
	0.125 MHz	
	0.5 MHz	
	1 MHz	

Current:

Element	Max. Recommended Current [A]
15 AWG	8.0 Amps per conductor @ 25°C

Voltage:

UL Voltage Rating
600 V RMS (NEC Type TC)

Use

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

Safety

UL Flammability:	UL1685 UL Loading
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Temperature Range

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

Mechanical Characteristics

Min Bend Radius/Minor Axis:	4.4 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)
MII Order #39 (China RoHS):	MII Order #39 (China RoHS)
NEC/(UL) Specification:	NEC/(UL) Specification
Other Specification:	Other Specification
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	EU CE Mark

History

Notes:

High Velocity. Thick. Meter marks on jacket to aid users in installation. ODVA DeviceNet is an Open DeviceNet Vendor Association, Inc. trademark. Jacket printed "1PR16" instead of "1PR15" due to UL requirements for CMG Listing.

Product Variants

Part Number	Color	Put-Up Type	Length
7897A T5U1000	GRAY T5U	Reel	1000 ft
7897A			
7897A T5U2000	GRAY T5U	Reel	2000 ft
7897A T5U500	GRAY T5U	Reel	500 ft

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