



Part Number: 7900A

DeviceNet™, (2) 16 AWG (19x29) TC, (1) 18 AWG (19x30) TC, PVC-NYL-FRPP/PVC, TC-ER

Product Description

One 16 AWG stranded (19x29) tinned copper conductors, one 18 AWG stranded (19x30) tinned copper conductors, PVC/Nylon insulation (power), flame retardant polypropylene insulation (data), PVC jacket.

Product Specifications

Technical Specifications

Construction and Dimensions

Conductor:

AWG	Stranding	Material	No. of Pairs
16	19x29	TC - Tinned Copper	1
18	19x30	TC - Tinned Copper	1
Total Number of Conductors:			4

Insulation:

Element	Material
16	PVC/Nylon - Polyvinyl Chloride/Nylon
18	FRPP - Flame Retardant Polypropylene

Color Chart 1:

Number	Color
1 (16 AWG)	Red & Black
2 (18 AWG)	Blue & White

Stranding:

Lay Length
1 MHz

Outershield 1:

Material
Unshielded

Outerjacket 1:

Material	Nominal Diameter	Separator Material
PVC - Polyvinyl Chloride	0.43 in	Polyester

Print Legend:	BELDEN 7900A E64067 DEVICEBUS(R) TYPE IV DROP CABLE 1PR16 1PR18 600V TYPE TC (UL) 75C DRY SUN RES OR C(UL) AWM I/II A/B 75C 600V FT1 (2 FT., 7 DIGIT SEQUENTIAL NUMBER) FEET
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Electrical Characteristics

Conductor DCR:

Element	Nominal Conductor DCR	Nominal Outer Shield DCR
16 AWG	4.9 Ohm/1000ft	1.8 Ohm/1000ft
18 AWG	6.9 Ohm/1000ft	

Capacitance:

Element	Nom. Capacitance Conductor to Conductor
18 AWG Pair Only	14.7 pF/ft

Delay:

Max. Delay	Max. Delay Description	Nominal Velocity of Propagation (VP) [%]	Nominal Velocity of Propagation (VP) Description
1.6 ns/ft	18 AWG Pair Only	64 %	18 AWG Pair Only

High Freq:

Element	Frequency [MHz]
18 AWG Pair Only	
18 AWG Pair Only	
	0.125 MHz
	0.5 MHz
	1 MHz

Current:

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

Voltage:

UL Voltage Rating

600 V RMS

Use

Suitability - Oil Resistance:

Yes

Suitability - Sunlight Resistance:

Yes

Max Recommended Pulling Tension:

110 lbs

Safety

CSA Flammability:

FT1

UL Flammability:

UL1685 UL Loading

Temperature Range

Operating Temp Range:

-20°C To +75°C

UL Temp Rating:

75°C

Mechanical Characteristics

Min Bend Radius/Minor Axis:

4.3 in

Part Number

Plenum (Y/N):

No

Standards

CA Prop 65 (CJ for Wire & Cable):

CA Prop 65 (CJ for Wire & Cable)

CSA AWM Specification:

CSA Specification

MII Order #39 (China RoHS):

MII Order #39 (China RoHS)

NEC/(UL) Specification:

NEC/(UL) Specification

EU Directive Compliance:

EU Directive 2003/11/EC (BFR)

EU CE Mark:

EU CE Mark

History

Notes:

Drop. Meter marks on jacket to aid users in installation. ODVA DeviceNet is an Open DeviceNet Vendor Association, Inc. trademark.

Product Variants

Part Number	Color	Put-Up Type	Length
7900A T5U1000	GRAY T5U	Reel	1000 ft
7900A T5U500	GRAY T5U	Reel	500 ft

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