



Part Number: 7895A

DeviceNet™, (1 pr) 18 AWG (19x30) TC, (1 pr) 20 AWG (19x32) TC, PVC-NYL/FPE/PVC, Foil+Braid Shld, TC-ER

Product Description

One 20 AWG pair stranded (19x32) tinned copper conductors, one 18 AWG pair stranded (18x30) tinned copper conductors, PVC insulation (power), FPE insulation (Data), individually foil shield (100% coverage) plus an overall tinned copper braid (65% coverage), PVC jacket.

Technical Specifications

Construction and Dimensions

Conductor:

AWG	Stranding	Material	No. of Conductors	No. of Pairs
18	19x30	TC - Tinned Copper	4	1
20	19x32	TC - Tinned Copper		1

Insulation:

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

Color Chart 1:

Number	Color
18 AWG Pair	Red & Black
20 AWG Pair	Blue & White

Stranding:

Lay Length
1 MHz

Innershield:

Type	Layer	Material	Coverage [%]	Drainwire AWG	Drainwire Construction n x D
Tape	18 AWG Pair	Aluminum Foil-Polyester Tape	100 %	20	19x32 mm
Tape	20 AWG Pair	Aluminum Foil-Polyester Tape	100 %	TC - Tinned Copper	

Outershield 1:

Type	Material	Coverage [%]
Braid	TC - Tinned Copper	65 %

Outerjacket 1:

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.378 in

Electrical Characteristics

Conductor DCR:

Element	Max. Conductor DCR	Nominal Outer Shield DCR
18 AWG	6.9 Ohm/1000ft	3.2 Ohm/1000ft
20 AWG	10.9 Ohm/100m	

Capacitance:

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

Impedance:

Nominal Characteristic Impedance	Nominal Characteristic Impedance Description
120 Ohm	20 AWG Pair

Delay:

Max. Delay	Max. Delay Description	Nominal Velocity of Propagation (VP) [%]	Nominal Velocity of Propagation (VP) Description
1.36 ns/ft	20 AWG Pair	75 %	20 AWG Pair

High Freq:

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

Voltage:

UL Description		UL Voltage Rating
PLTC, CMG		300 V RMS
UL AWM		600 V RMS

Use

Suitability - Oil Resistance:	Yes
Suitability - Sunlight Resistance:	Yes
Max Recommended Pulling Tension:	65 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 (UL AWM Style 20201)

Mechanical Characteristics

Min Bend Radius/Minor Axis:	3.8 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:	Mid. Meter marks on jacket to aid users in installation. ODVA DeviceNet is an Open DeviceNet Vendor Association, Inc. trademark.
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Product Variants

Part Number	Color	Put-Up Type	Length
7895A T5U1000	GRAY T5U	Reel	1000 ft
7895A			
7895A T5U5000	GRAY T5U	Reel	5000 ft
7895A T5U500	GRAY T5U	Reel	500 ft

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