



Part Number: 7895A

DeviceBus®, 2 Pr #18+20 Str TC, PVC+PO Ins, IS+OA TC Brd, PVC Jkt, CMG

[Request Sample](#)

Product Description

DeviceBus® for ODVA DeviceNet™, 2 Pair 18+20AWG (19x30+19x32) Tinned Copper, PVC+PO Insulation, Individual Beldfoil® & OA Tinned Copper Braid(65%) Shield, PVC Outer Jacket, CMG

Technical Specifications

Physical Characteristics (Overall)

Conductor

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

Conductor Count:	4
Total Number of Pairs:	2

Insulation

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

Color Chart

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

Inner Shield Material

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

Outer Shield Material

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

Outer Jacket Material

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
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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

Temperature Range

UL Temp Rating:	75°C (UL AWM Style 20201)
Operating Temp Range:	-20°C To +75°C

Mechanical Characteristics

Oil Resistance:	Yes
Bulk Cable Weight:	68 lbs/1000ft
Max Recommended Pulling Tension:	65 lbs
Min Bend Radius/Minor Axis:	3.8 in

Standards

NEC/(UL) Specification:	CMG, PLTC
CEC/C(UL) Specification:	CMG
UL AWM Style:	UL Style 20201 (600 V 75°C)
CPR Euroclass:	Eca
Other Standards:	ODVA Cable III

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-04-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Oil Resistance:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 FT4 Loading
CSA Flammability:	FT4
ISO/IEC Flammability:	IEC 60332-1-2
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	UPC	Length	Footnote
7895A T5U1000	Gray T5U	612825190790	1,000 ft	C
7895A T5U500	Gray T5U	612825190806	500 ft	
7895A T5U5000	Gray T5U	612825190813	5,000 ft	C Z

Footnote:	C - CRATE REEL PUT-UP.
Footnote:	Z - FINAL PUT-UP MAY VARY (= OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

Product Notes

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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History

Update and Revision:	Revision Number: 0.324 Revision Date: 08-22-2019
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