



For more Information  
please call

1-800-Belden1



### General Description:

16 and 18 AWG stranded tinned copper conductors, PVC/Nylon insulation (power), F-R Polypropylene insulation (data), unshielded, sunlight/oil-resistant PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Pairs	AWG	Stranding	Conductor Material
1	16	19x29	TC - Tinned Copper
1	18	19x30	TC - Tinned Copper

Total Number of Conductors: 4

#### Insulation

##### Insulation Material:

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

#### Outer Shield

##### Outer Shield Material:

Outer Shield Material
Unshielded

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

#### Overall Cable

Overall Cabling Separator Material: Polyester Tape

Overall Nominal Diameter: 10.922 mm

#### Pair

##### Pair Color Code Chart:

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

### Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +75°C

UL Temperature Rating: 75°C

Bulk Cable Weight: 148.820 Kg/Km

Max. Recommended Pulling Tension: 489.302 N

Min. Bend Radius/Minor Axis: 109.220 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: TC-ER

## 7900A Multi-Conductor - DeviceBus® for ODVA DeviceNet™

CSA Specification:	AWM I/II A/B
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	10/13/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

### Flame Test

UL Flame Test:	UL1685 UL Loading
CSA Flame Test:	FT1

### Suitability

Sunlight Resistance:	Yes
Oil Resistance:	Yes

### Plenum/Non-Plenum

Plenum (Y/N):	No
---------------	----

### Surface Printing (Overall)

Surface Printing:	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
-------------------	--

### Electrical Characteristics (Overall)

#### Fitted Impedance:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Impedance (Ohm)
18 AWG Pair Only				120

#### Nom. Capacitance Conductor to Conductor:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Capacitance (pF/m)
18 AWG Pair Only	1			48.2307

#### Nominal Velocity of Propagation:

Description	VP (%)
18 AWG Pair Only	64

#### Maximum Delay:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Delay (ns/m)
18 AWG Pair Only				5.2496

#### Nom. Conductor DC Resistance:

Description	DCR @ 20°C (Ohm/km)
16 AWG	16.0769
18 AWG	22.6389

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
5.9058

#### Max. Attenuation:

()	Description	Freq. (MHz)
0.42653	18 AWG Pair Only	.125
0.82025		.500
1.3124		1.00

## METRIC MEASUREMENT VERSION

### 7900A Multi-Conductor - DeviceBus® for ODVA DeviceNet™

#### Max. Operating Voltage - UL:

Voltage
600 V RMS

#### Max. Recommended Current:

Description	Current
15 AWG	8.0 Amps

#### Notes (Overall)

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

#### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7900A T5U1000	1,000 FT	102.000 LB	GRAY T5U	C	2 #16 PVC/NYL, 2 #18 PP PVC
7900A T5U500	500 FT	51.000 LB	GRAY T5U	C	2 #16 PVC/NYL, 2 #18 PP PVC

#### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1    Revision Date: 05-14-2007

© 2019 Belden, Inc  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product. Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).