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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: 0.430 in.

### 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: 100 lbs/1000 ft.

Max. Recommended Pulling Tension: 110 lbs.

Min. Bend Radius/Minor Axis: 4.300 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification: TC-ER

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

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

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
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## Surface Printing (Overall)

## 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/ft)
18 AWG Pair Only	1			14.7

### Nominal Velocity of Propagation:

Description	VP (%)
18 AWG Pair Only	64

### Maximum Delay:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Delay (ns/ft)
18 AWG Pair Only				1.6

### Nom. Conductor DC Resistance:

Description	DCR @ 20°C (Ohm/1000 ft)
16 AWG	4.9
18 AWG	6.9

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
1.8

### Max. Attenuation:

()	Description	Freq. (MHz)
.13	18 AWG Pair Only	.125
.25		.500
.40		1.00

### 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.

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