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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.

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