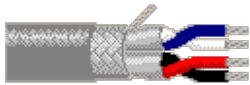


For more Information  
please call

1-800-Belden1



### General Description:

15 and 18 AWG stranded tinned copper conductors, PVC/Nylon insulation (power), FEP insulation (data), individually foil shielded (100% coverage) plus an overall tinned copper braid (65% coverage), sunlight/oil-resistant PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 1       | 15  | 19x28     | 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 | 15  |
| FEP - Fluorinated Ethylene Propylene | 18  |

#### Inner Shield

##### Inner Shield Material:

| Layer #     | Type | Inner Shield Material        | Coverage (%) |
|-------------|------|------------------------------|--------------|
| 15 AWG Pair | Tape | Aluminum Foil-Polyester Tape | 100          |
| 18 AWG Pair | Tape | Aluminum Foil-Polyester Tape | 100          |

#### Outer Shield

##### Outer Shield Material:

| Type  | Outer Shield Material | Coverage (%) |
|-------|-----------------------|--------------|
| Braid | TC - Tinned Copper    | 65           |

##### Outer Shield Drain Wire AWG:

| AWG | Stranding | Drain Wire Conductor Material |
|-----|-----------|-------------------------------|
| 18  | 19x30     | TC - Tinned Copper            |

#### Outer Jacket

##### Outer Jacket Material:

| Outer Jacket Material    | Nom. Wall Thickness (mm) |
|--------------------------|--------------------------|
| PVC - Polyvinyl Chloride | 1.524                    |

#### Overall Cable

Overall Nominal Diameter: 11.684 mm

#### Pair

##### Pair Color Code Chart:

| Number      | Color        |
|-------------|--------------|
| 15 AWG Pair | Red & Black  |
| 18 AWG Pair | Blue & White |

### Mechanical Characteristics (Overall)

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

## 7897A Multi-Conductor - DeviceBus® for ODVA DeviceNet™

|                                   |               |
|-----------------------------------|---------------|
| Non-UL Temperature Rating:        | 75°C          |
| Bulk Cable Weight:                | 200.907 Kg/Km |
| Max. Recommended Pulling Tension: | 845.158 N     |
| Min. Bend Radius/Minor Axis:      | 111.760 mm    |

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

|                                       |                    |
|---------------------------------------|--------------------|
| NEC/(UL) Specification:               | TC-ER              |
| 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): | 04/01/05           |
| 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                |
| Other Specification:                  | ODVA Class 1 Thick |

#### Flame Test

|                |                   |
|----------------|-------------------|
| UL Flame Test: | UL1685 UL Loading |
|----------------|-------------------|

#### Suitability

|                      |     |
|----------------------|-----|
| Sunlight Resistance: | Yes |
| Oil Resistance:      | Yes |

#### Plenum/Non-Plenum

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

### Electrical Characteristics (Overall)

#### Unaveraged Impedance:

| Description      | Freq. (MHz) | Start Freq. (MHz) | Stop Freq. (MHz) | Impedance (Ohm) |
|------------------|-------------|-------------------|------------------|-----------------|
| 18 AWG Pair Only | .5          |                   |                  | 120             |

#### Nom. Capacitance Conductor to Conductor:

| Description      | Freq. (MHz) | Start Freq. (MHz) | Stop Freq. (MHz) | Capacitance (pF/m) |
|------------------|-------------|-------------------|------------------|--------------------|
| 18 AWG Pair Only | 1           |                   |                  | 39.372             |

#### Nominal Velocity of Propagation:

| Description      | VP (%) |
|------------------|--------|
| 18 AWG Pair Only | 75     |

#### Maximum Delay:

| Description      | Freq. (MHz) | Start Freq. (MHz) | Stop Freq. (MHz) | Delay (ns/m) |
|------------------|-------------|-------------------|------------------|--------------|
| 18 AWG Pair Only |             |                   |                  | 4.46216      |

#### Nom. Conductor DC Resistance:

| Description | DCR @ 20°C (Ohm/km) |
|-------------|---------------------|
| 15 AWG      | 11.8116             |
| 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        |

## METRIC MEASUREMENT VERSION

## 7897A Multi-Conductor - DeviceBus® for ODVA DeviceNet™

|         |  |      |
|---------|--|------|
| 0.82025 |  | .500 |
| 1.3124  |  | 1.0  |

### Max. Operating Voltage - UL:

| Voltage                 |
|-------------------------|
| 600 V RMS (NEC Type TC) |

### Max. Recommended Current:

| Description | Current                       |
|-------------|-------------------------------|
| 15 AWG      | 8.0 Amps per conductor @ 25°C |

## Notes (Overall)

**Notes:** High Velocity. Thick. Meter marks on jacket to aid users in installation. ODVA DeviceNet is an Open DeviceNet Vendor Association, Inc. trademark. Jacket printed "1PR16" instead of "1PR15" due to UL requirements for CMG Listing.

## Put Ups and Colors:

| Item #        | Putup    | Ship Weight | Color    | Notes | Item Desc                      |
|---------------|----------|-------------|----------|-------|--------------------------------|
| 7897A T5U1000 | 1,000 FT | 144.000 LB  | GRAY T5U | C     | 2 #15 PVC/NYL,2#18 FFEP SH PVC |
| 7897A T5U2000 | 2,000 FT | 274.000 LB  | GRAY T5U | C     | 2 #15 PVC/NYL,2#18 FFEP SH PVC |
| 7897A T5U500  | 500 FT   | 69.500 LB   | GRAY T5U | C     | 2 #15 PVC/NYL,2#18 FFEP SH PVC |

### Notes:

C = CRATE REEL PUT-UP.

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