



Part Number: 7900A

DeviceNet™, (2) 16 AWG (19x29) TC, (1) 18 AWG (19x30) TC, PVC-NYL-FRPP/PVC, TC-ER

Product Description

One 16 AWG stranded (19x29) tinned copper conductors, one 18 AWG stranded (19x30) tinned copper conductors, PVC/Nylon insulation (power), flame retardant polypropylene insulation (data), PVC jacket.

Product Specifications

Technical Specifications

Construction and Dimensions

Conductor:

| AWG | Stranding | Material | No. of Pairs |
|------------------------------------|-----------|--------------------|--------------|
| 16 | 19x29 | TC - Tinned Copper | 1 |
| 18 | 19x30 | TC - Tinned Copper | 1 |
| Total Number of Conductors: | | | 4 |

Insulation:

| Element | Material |
|---------|--------------------------------------|
| 16 | PVC/Nylon - Polyvinyl Chloride/Nylon |
| 18 | FRPP - Flame Retardant Polypropylene |

Color Chart 1:

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

Stranding:

| Lay Length |
|------------|
| 1 MHz |

Outersield 1:

| Material |
|------------|
| Unshielded |

Outerjacket 1:

| Material | Nominal Diameter | Separator Material |
|--------------------------|------------------|--------------------|
| PVC - Polyvinyl Chloride | 0.43 in | Polyester |

| | |
|----------------------|---|
| Print Legend: | 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

Conductor DCR:

| Element | Nominal Conductor DCR | Nominal Outer Shield DCR |
|---------|-----------------------|--------------------------|
| 16 AWG | 4.9 Ohm/1000ft | 1.8 Ohm/1000ft |
| 18 AWG | 6.9 Ohm/1000ft | |

Capacitance:

| Element | Nom. Capacitance Conductor to Conductor |
|------------------|---|
| 18 AWG Pair Only | 14.7 pF/ft |

Delay:

| Max. Delay | Max. Delay Description | Nominal Velocity of Propagation (VP) [%] | Nominal Velocity of Propagation (VP) Description |
|------------|------------------------|--|--|
| 1.6 ns/ft | 18 AWG Pair Only | 64 % | 18 AWG Pair Only |

High Freq:

| Element | Frequency [MHz] |
|------------------|-----------------|
| 18 AWG Pair Only | |
| 18 AWG Pair Only | |
| | 0.125 MHz |
| | 0.5 MHz |
| | 1 MHz |

Current:

| Element | Max. Recommended Current [A] |
|---------|------------------------------|
| 15 AWG | 8.0 Amps |

Voltage:

UL Voltage Rating

600 V RMS

Use

| | |
|------------------------------------|---------|
| Suitability - Oil Resistance: | Yes |
| Suitability - Sunlight Resistance: | Yes |
| Max Recommended Pulling Tension: | 110 lbs |

Safety

| | |
|-------------------|-------------------|
| CSA Flammability: | FT1 |
| UL Flammability: | UL1685 UL Loading |

Temperature Range

| | |
|-----------------------|----------------|
| Operating Temp Range: | -20°C To +75°C |
| UL Temp Rating: | 75°C |

Mechanical Characteristics

| | |
|-----------------------------|--------|
| Min Bend Radius/Minor Axis: | 4.3 in |
|-----------------------------|--------|

Part Number

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

Standards

| | |
|-----------------------------------|----------------------------------|
| CA Prop 65 (CJ for Wire & Cable): | CA Prop 65 (CJ for Wire & Cable) |
| CSA AWM Specification: | CSA Specification |
| MII Order #39 (China RoHS): | MII Order #39 (China RoHS) |
| NEC/(UL) Specification: | NEC/(UL) Specification |
| EU Directive Compliance: | EU Directive 2003/11/EC (BFR) |
| EU CE Mark: | EU CE Mark |

History

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

Product Variants

| Part Number | Color | Put-Up Type | Length |
|---------------|----------|-------------|---------|
| 7900A T5U1000 | GRAY T5U | Reel | 1000 ft |
| 7900A T5U500 | GRAY T5U | Reel | 500 ft |

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