



**Product:** [9951](#) 

Electronic, 1 C #16 Str TC, PVC-NYL Ins, OA TC Brd, PVC Jkt

 [Request Sample](#)

## Product Description

Electronic, 1 Conductor 16AWG (19x29) Tinned Copper, PVC-NYL Insulation, Overall Tinned Copper Braid(90%) Shield, PVC Outer Jacket

## Technical Specifications

### Product Overview

|                        |                                                                                   |
|------------------------|-----------------------------------------------------------------------------------|
| Suitable Applications: | MIL-W-16878 (Type B) Spec; up to 600V analog signals ; up to 600V voltage control |
|------------------------|-----------------------------------------------------------------------------------|

### Physical Characteristics (Overall)

#### Conductor

| AWG | Stranding | Material           | No. of Conductors |
|-----|-----------|--------------------|-------------------|
| 16  | 19x29     | TC - Tinned Copper | 1                 |

|                  |   |
|------------------|---|
| Conductor Count: | 1 |
|------------------|---|

#### Insulation

| Layer | Material                 | Nominal Wall Thickness |
|-------|--------------------------|------------------------|
| 1     | PVC - Polyvinyl Chloride | 0.012 in               |
| 2     | Nylon                    | 0.004 in               |

#### Color Chart

| Color |
|-------|
| White |

#### Outer Shield

| Type  | Material           | Coverage [%] |
|-------|--------------------|--------------|
| Braid | Tinned Copper (TC) | 90%          |

#### Outer Jacket

| Material                 | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.143 in         | 0.016 in               |

### Electrical Characteristics

#### Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 5.8 Ohm/1000ft        | 4.3 Ohm/1000ft           |

#### Capacitance

| Nom. Capacitance Conductor to Shield |
|--------------------------------------|
| 138 pF/ft                            |

#### Current

| Max. Recommended Current [A]   |
|--------------------------------|
| 6.5 Amps per Conductor at 25°C |

#### Voltage

| Non-UL Voltage Rating |
|-----------------------|
| 600 V RMS             |

|                                   |                                |
|-----------------------------------|--------------------------------|
| Electrical Characteristics Notes: | 500 megohms/1000 ft. @ 500 VDC |
|-----------------------------------|--------------------------------|

Temperature Range

|                       |                 |
|-----------------------|-----------------|
| UL Temp Rating:       | 105°C           |
| Operating Temp Range: | -20°C To +105°C |

Mechanical Characteristics

|                              |               |
|------------------------------|---------------|
| Bulk Cable Weight:           | 20 lbs/1000ft |
| Max. Pull Tension:           | 30.4 lbs      |
| Min. Bend Radius/Minor Axis: | 1.5 in        |

Standards

|                      |                                       |
|----------------------|---------------------------------------|
| Military Compliance: | MIL-W-16878E/17 (insulated conductor) |
| Other Specification: | NEMA HP3                              |

Applicable Environmental and Other Programs

|                                   |                               |
|-----------------------------------|-------------------------------|
| EU Directive 2000/53/EC (ELV):    | Yes                           |
| EU Directive 2003/96/EC (BFR):    | Yes                           |
| EU Directive 2011/65/EU (RoHS 2): | Yes                           |
| EU Directive 2012/19/EU (WEEE):   | Yes                           |
| EU Directive Compliance:          | EU Directive 2003/11/EC (BFR) |
| EU CE Mark:                       | Yes                           |
| MII Order #39 (China RoHS):       | Yes                           |

Flammability, LSOH, Toxicity Testing

|                  |      |
|------------------|------|
| UL Flammability: | VW-1 |
|------------------|------|

Plenum/Non-Plenum

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

Part Number

Variants

| Item #       | Color | UPC          |
|--------------|-------|--------------|
| 9951 0091000 | White | 612825265092 |

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.375 Revision Date: 08-27-2021 |
|----------------------|--------------------------------------------------|

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