



**Product:** [9961](#) 

Electronic, 1 C #20 Str TC, PVC-NYL Ins, OA TC Brd, PVC Jkt

 [Request Sample](#)

**Product Description**

Electronic, 1 Conductor 20AWG (19x32) 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 |
|-----|-----------|--------------------|-------------------|
| 20  | 19x32     | TC - Tinned Copper | 1                 |

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

**Insulation**

| Layer | Material                 | Nominal Wall Thickness |
|-------|--------------------------|------------------------|
| 1     | PVC - Polyvinyl Chloride | 0.011 in               |
| 2     | Nylon                    | 0.003 in               |

**Color Chart**

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

**Outer Shield Material**

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

**Outer Jacket Material**

| Material                 | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.109 in         | 0.01 in                |

**Electrical Characteristics**

**Conductor DCR**

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 8.9 Ohm/1000ft        | 7.5 Ohm/1000ft           |

**Capacitance**

| Nom. Capacitance Conductor to Shield |
|--------------------------------------|
| 103 pF/ft                            |

**Current**

| Max. Recommended Current [A]    |
|---------------------------------|
| 3.8 Amps per conductor @ 25°C A |

**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:               | 8 lbs/1000ft |
| Max Recommended Pulling Tension: | 15 lbs       |
| Min Bend Radius/Minor Axis:      | 1.25 in      |

### Standards

|                         |                                       |
|-------------------------|---------------------------------------|
| Military Specification: | 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 II):    | Yes                           |
| EU Directive 2012/19/EU (WEEE):       | Yes                           |
| EU Directive Compliance:              | EU Directive 2003/11/EC (BFR) |
| EU CE Mark:                           | Yes                           |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2005-10-01                    |
| MII Order #39 (China RoHS):           | Yes                           |

### Flammability, LS0H, Toxicity Testing

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

### Plenum/Non-Plenum

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

### Part Number

#### Variants

| Item #       | Color | UPC          |
|--------------|-------|--------------|
| 9961 0091000 | White | 612825265191 |
| 9961 009500  | White | 612825265207 |

### History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.296 Revision Date: 04-28-2020 |
|----------------------|--------------------------------------------------|

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