



Product: [9952](#)

Electronic, 2 C #16 Str TC, PVC-NYL Ins, OA TC Brd, PVC Jkt

[Request Sample](#)

Product Description

Electronic, 2 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 | 2                 |

|                        |   |
|------------------------|---|
| Conductor Count:       | 2 |
| Total Number of Pairs: | 1 |

Insulation

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

Color Chart

| Number | Color |
|--------|-------|
| 1      | White |
| 2      | Black |

Outer Shield Material

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

Outer Jacket Material

| Material                 | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.25 in          | 0.025 in               |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 4.3 Ohm/1000ft        | 5.7 Ohm/1000ft           |

Capacitance

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|-----------------------------------------|---------------------------------------------------------|
| 57 pF/ft                                | 95 pF/ft                                                |

Inductance

| Nominal Inductance |
|--------------------|
| 0.12 µH/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:          | 38 lbs/1000ft |
| Max. Pull Tension:          | 60.8 lbs      |
| Min Bend Radius/Minor Axis: | 2.5 in        |

Standards

|                      |                                       |
|----------------------|---------------------------------------|
| CPR Euroclass:       | Eca                                   |
| Military Compliance: | MIL-W-16878E/17 (insulated conductor) |
| Other Compliance:    | 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

|                   |               |
|-------------------|---------------|
| IEC Flammability: | IEC 60332-1-2 |
|-------------------|---------------|

Plenum/Non-Plenum

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

Part Number

Variants

| Item #       | Color | UPC          |
|--------------|-------|--------------|
| 9952 009100  | White | 612825265108 |
| 9952 0091000 | White | 612825265115 |
| 9952 009500  | White | 612825265122 |

|           |                        |
|-----------|------------------------|
| Footnote: | C - CRATE REEL PUT-UP. |
|-----------|------------------------|

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.295 Revision Date: 06-08-2020 |
|----------------------|--------------------------------------------------|

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