



Product: [9963](#)

Electronic, 3 C #20 Str TC, PVC-NYL Ins, OA TC Brd, PVC Jkt

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Product Description

Electronic, 3 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 | 3 |

| | |
|------------------|---|
| Conductor Count: | 3 |
|------------------|---|

Insulation

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

Color Chart

| Number | Color |
|--------|-------|
| 1 | White |
| 2 | Black |
| 3 | Red |

Outer Shield Material

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

Outer Jacket Material

| Material | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.21 in | 0.025 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 9.1 Ohm/1000ft | 5.8 Ohm/1000ft |

Capacitance

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|---|---|
| 49 pF/ft | 84 pF/ft |

Inductance

| Nominal Inductance |
|--------------------|
| 0.145 μ H/ft |

Current

Max. Recommended Current [A]

3.8 Amps per Conductor at 25°C

Voltage

Non-UL Voltage Rating

600 V RMS

Electrical Characteristics Notes: Insulation Resistance: 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: | 29 lbs/1000ft |
| Max. Pull Tension: | 45 lbs |
| Min Bend Radius/Minor Axis: | 2.25 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 |
|--------------|-------|--------------|
| 9963 009100 | White | 612825265245 |
| 9963 0091000 | White | 612825265252 |
| 9963 009500 | White | 612825265269 |

Footnote: C - CRATE REEL PUT-UP.

History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.297 Revision Date: 06-24-2020 |
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