



Product: [9891](#) 

Transceiver 10BASE5, #22-3pr, #20-1pr, FHDPE, Indiv. Foil shielded pairs w/ OA Brd, PVC Jkt, CM

Product Description

IEEE 802.3 Ethernet Transceiver 10BASE5, 20 and 22 AWG stranded tinned copper conductors, foam high-density polyethylene (22 AWG) and PVC (20 AWG) insulation, twisted pairs, Individually foil shielded pairs with overall tinned copper braid shield (95% coverage) drain wire, PVC jacket.

Technical Specifications

Product Overview

| | |
|------------------------|------------------------------|
| Suitable Applications: | IEEE 802.3 Transceiver Cable |
|------------------------|------------------------------|

Construction Details

Conductor

| Element | Number of Element | AWG | Stranding | Material |
|--------------|-------------------|-----|-----------|--------------------|
| Data Pair(s) | 3 | 22 | 7x30 | TC - Tinned Copper |
| Pair(s) | 1 | 20 | 7x28 | TC - Tinned Copper |

Insulation

| Element | Material | Thickness [in] | Color Code | Notes |
|--------------|--------------------------|----------------|--|-------|
| Data Pair(s) | PE - Polyethylene (Foam) | 0.0165 | Yellow & Orange, Blue & Green, Gray & Purple | HDPE |
| Pair(s) | PVC - Polyvinyl Chloride | 0.012 | Black & White | |

Inner Shield Material

| Element | Type | Material | Coverage | Notes |
|--------------|------|-------------|----------|----------|
| Data Pair(s) | Tape | Alum / Poly | 100% | Foil Out |
| Pair(s) | Tape | Alum / Poly | 100% | Foil Out |

Outer Shield Material

| Type | Material | Coverage |
|-------|--------------------|----------|
| Braid | Tinned Copper (TC) | 95% |

Outer Jacket Material

| Material | Thickness | Diameter |
|--------------------------|-----------|----------|
| PVC - Polyvinyl Chloride | 0.032 in | 0.316 in |

Electrical Characteristics

Electricals

| Element | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Characteristic Impedence | Nom. Velocity of Prop. | Max. Current |
|---------|--------------------|-------------------------------|---|--------------------------|------------------------|--------------------------------------|
| Pair(s) | 14.7 Ohm/1000ft | 16.7 pF/ft | 29.5 pF/ft | 78 Ohm | 78% | 2 Amps per conductor at 25°C |
| Pair(s) | 9.5 Ohm/1000ft | | | | | 2.5 amps per conductor @ 25C ambient |

Voltage

| UL Voltage Rating |
|--------------------------------|
| 300 V (CM), 30 V (UL AWM 2919) |

Mechanical Characteristics

Temperature

| UL Rating | Operating |
|--------------------|----------------|
| 80°C (UL AWM 2919) | -20°C to +80°C |

Bend Radius

| Stationary Min. |
|-----------------|
| 3.25 in |

| | |
|--------------------|---------------|
| Max. Pull Tension: | 160 lbs |
| Bulk Cable Weight: | 65 lbs/1000ft |

Standards and Compliance

| | |
|---------------------------------|---|
| Environmental Suitability: | Indoor |
| Flammability / Fire Resistance: | UL1685 UL Loading, FT1, IEC 60332-1-2 |
| NEC / UL Compliance: | Article 800, CM |
| AWM Compliance: | 2919 |
| CEC / C(UL) Compliance: | CM |
| IEEE Compliance: | 802.3 10Base5 |
| CPR Euroclass: | Eca |
| European Directive Compliance: | EU CE Mark, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |

History

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| Update and Revision: | Revision Number: 0.340 Revision Date: 06-05-2020 |
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