



Product: [9902](#)

Transceiver 10BASE5, #20-5pr, FPO, Isolated Shields, PVC Jkt, CM

Product Description

IEEE 802.3 Ethernet Transceiver 10BASE5, 20 AWG stranded (7x28) tinned copper conductors, Datalene® insulation, twisted pairs, overall polyester isolation tape + Duofoil® + tinned copper braid shield (95% coverage), drain wire, light gray PVC jacket.

Technical Specifications

Product Overview

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

Construction Details

Conductor

| Element | No. of Elements | Size   | Stranding | Material           |
|---------|-----------------|--------|-----------|--------------------|
| Pair(s) | 5               | 20 AWG | 7x28      | TC - Tinned Copper |

Insulation

| Element | Material                 | Nom. Thickness    | Nom. Insulation Diameter | Color Code  | Notes |
|---------|--------------------------|-------------------|--------------------------|---|-------|
| Pair(s) | PE - Polyethylene (Foam) | 0.02 in (0.51 mm) | 0.077 in (2.0 mm)        | Gray & White, Yellow & Orange, Blue & Green, Red & Brown, Red & Black | HDPE  |

Inner Shield

| Shield Type | Material                | Coverage |
|-------------|-------------------------|----------|
| Tape        | Bi-Laminate (Alum+Poly) | 100%     |

Outer Shield

| Shield Type | Material                      | Coverage | Drainwire Type   |
|-------------|-------------------------------|----------|------------------|
| Tape        | Tri-Laminate (Alum+Poly+Alum) | 100%     | 20 AWG (7x28) TC |
| Braid       | Tinned Copper (TC)            | 95%      |                  |

Outer Jacket

| Separator      | Material                 | Nom. Thickness   | Nom. Diameter |
|----------------|--------------------------|------------------|---------------|
| Polyester Tape | PVC - Polyvinyl Chloride | 0.04 in (1.0 mm) | 0.495 in      |

|                                   |          |
|-----------------------------------|----------|
| Overall Cable Diameter (Nominal): | 0.495 in |
|-----------------------------------|----------|

Electrical Characteristics

Electricals

| Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Nom. Characteristic Impedence | Nom. Velocity of Prop. | Max. Current                   |
|--------------------|-------------------------------|---|-------------------------------|------------------------|--------------------------------|
| 11.4 Ohm/1000ft    | 16.7 pF/ft (54.8 pF/m)        | 29.5 pF/ft (96.8 pF/m)                          | 78 Ohm                        | 78%                    | 5.6 Amps per Conductor at 30°C |

Voltage

| UL Voltage Rating            |
|------------------------------|
| 150 V (CL2), 30 V (AWM 2919) |

Mechanical Characteristics

Temperature

| UL Temperature | Operating |
|----------------|-----------|
|----------------|-----------|

|      |                |
|------|----------------|
| 80°C | -20°C to +80°C |
|------|----------------|

Bend Radius

| Stationary Min.  | Installation Min. |
|------------------|-------------------|
| 4.95 in (126 mm) | 4.95 in           |

|                    |                      |
|--------------------|----------------------|
| Max. Pull Tension: | 248.6 lbs (112.8 kg) |
| Bulk Cable Weight: | 138 lbs/1000ft       |

Standards and Compliance

|                                  |  |
|----------------------------------|--|
| Environmental Suitability:       | Indoor                                     |
| Flammability / Reaction to Fire: | UL1685 UL Loading                          |
| NEC / UL Compliance:             | Article 800, Article 725                   |
| AWM Compliance:                  | AWM 2919                                   |
| CEC / C(UL) Compliance:          | CM   |
| IEEE Compliance:                 | IEEE 802.3                                 |
| European Directive Compliance:   | EU CE Mark, EU Directive 2012/19/EU (WEEE) |
| APAC Compliance:                 | China RoHS II (GB/T 26572-2011)            |

Product Notes

|        |  |
|--------|--|
| Notes: | Polyester separator tape over cabled pairs |
|--------|--|

History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.361 Revision Date: 01-10-2024 |
|----------------------|--|

Part Numbers

Variants

| Item #       | Color           | UPC          | Footnote |
|--------------|-----------------|--------------|----------|
| 9902 E4X1000 | Gray, Light Dec | 612825260264 | C        |
| 9902 E4X500  | Gray, Light Dec | 612825260271 | C        |

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