

## 9902 Multi-Conductor - 10Base5 Transceiver



For more Information  
please call

1-800-Belden1

**Description:**

20 AWG stranded (7x28) TC conductors, non-plenum, Datalene® insulation, twisted pairs, overall polyester isolation tape + Duofoil + TC braid shield (95% coverage), drain wire, light gray PVC jacket.

**Physical Characteristics (Overall)****Conductor****AWG:**

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 5       | 20  | 7x28      | TC - Tinned Copper |

**Insulation****Insulation Material:**

| Insulation Trade Name | Insulation Material                    |
|-----------------------|----------------------------------------|
| Datalene®             | FHDPE - Foam High Density Polyethylene |

**Inner Shield****Inner Shield Material:**

| Inner Shield Trade Name | Type | Inner Shield Material        | Coverage (%) |
|-------------------------|------|------------------------------|--------------|
| Beldfoil®               | Tape | Aluminum Foil-Polyester Tape | 100          |

**Inner Shield Drain Wire AWG:**

| AWG |
|-----|
| 20  |

Inner Shield Drain Wire Stranding: 7x28

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

**Outer Shield****Outer Shield Material:**

| Layer # | Outer Shield Trade Name | Type  | Outer Shield Material                      | Coverage (%) |
|---------|-------------------------|-------|--------------------------------------------|--------------|
| 1       | Duofoil®                | Tape  | Aluminum Foil-Polyester Tape-Aluminum Foil | 100          |
| 2       |                         | Braid | TC - Tinned Copper                         | 95           |

**Outer Jacket****Outer Jacket Material:**

| Outer Jacket Material    |
|--------------------------|
| PVC - Polyvinyl Chloride |

**Overall Cable**

Overall Cabling Separator Material: Polyester Tape

Overall Nominal Diameter: 0.500 in.

**Pair****Pair Color Code Chart:**

| Number     | Color           |
|------------|-----------------|
| 1 (78 Ohm) | Gray & White    |
| 2 (78 Ohm) | Yellow & Orange |
| 3 (78 Ohm) | Blue & Green    |
| 4 (78 Ohm) | Red & Brown     |
| 5 (Power)  | Red & Black     |

**Mechanical Characteristics (Overall)**

|                                        |                          |
|----------------------------------------|--------------------------|
| Operating Temperature Range:           | -20°C To +80°C           |
| UL Temperature Rating:                 | 80°C (UL AWM Style 2919) |
| Bulk Cable Weight:                     | 140 lbs/1000 ft.         |
| Max. Recommended Pulling Tension:      | 240 lbs.                 |
| Min. Bend Radius (Install)/Minor Axis: | 5 in.                    |

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

|                                       |                           |
|---------------------------------------|---------------------------|
| NEC/(UL) Specification:               | CM, CL2                   |
| CEC/C(UL) Specification:              | CM                        |
| AWM Specification:                    | UL Style 2919 (30 V 80°C) |
| IEEE Specification:                   | IEEE802.3 10Base5         |
| EU CE Mark:                           | Yes                       |
| EU Directive 2000/53/EC (ELV):        | Yes                       |
| EU Directive 2002/95/EC (RoHS):       | Yes                       |
| EU RoHS Compliance Date (mm/dd/yyyy): | 01/01/2004                |
| EU Directive 2002/96/EC (WEEE):       | Yes                       |
| EU Directive 2003/11/EC (BFR):        | Yes                       |
| CA Prop 65 (CJ for Wire & Cable):     | Yes                       |
| MII Order #39 (China RoHS):           | Yes                       |

**Flame Test**

|                |                   |
|----------------|-------------------|
| UL Flame Test: | UL1685 UL Loading |
|----------------|-------------------|

**Plenum/Non-Plenum**

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

**Electrical Characteristics (Overall)****Nom. Characteristic Impedance:**

Impedance (Ohm)

78

**Nom. Capacitance Conductor to Conductor:**

Capacitance (pF/ft)

16.7

**Nom. Capacitance Cond. to Other Conductor & Shield:**

Capacitance (pF/ft)

29.5

**Nominal Velocity of Propagation:**

VP (%)

78

**Nominal Delay:**

Delay (ns/ft)

1.30

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)

10.5

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)

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1.65

**Max. Operating Voltage - UL:****Voltage**

30 V RMS (UL AWM Style 2919)

**Max. Recommended Current:****Current**

2.1 Aamps per conductors at 25°C

**Related Documents:**

No related documents are available for this product

**Put Ups and Colors:**

| Item #       | Putup    | Ship Weight | Color           | Notes | Item Desc                |
|--------------|----------|-------------|-----------------|-------|--------------------------|
| 9902 E4X1000 | 1,000 FT | 145.000 LB  | GRAY, LIGHT DEC | C     | 5 SH PR #20 FHDPE SH PVC |
| 9902 E4X500  | 500 FT   | 76.000 LB   | GRAY, LIGHT DEC | C     | 5 SH PR #20 FHDPE SH PVC |

**Notes:**

C = CRATE REEL PUT-UP.

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