

## 9898 Multi-Conductor - 10 Base 5 Transceiver

 For more Information  
 please call

1-800-Belden1


**Picture  
 Not Available**
**Description:**

3 Pairs - 28 AWG stranded (7x36) tinned copper conductors, 3 conductors - 24 AWG stranded (7x32) tinned copper conductors, polypropylene insulation, all indiv. Beldfoil® shielded, overall isolated, Duofoil® plus tinned copper braid shield, PVC jacket.

**Usage (Overall)**

Suitable Applications:

IEEE 802.3 Transceiver Cable

**Physical Characteristics (Overall)****Conductor**

AWG:

| # Conductors | # Pairs | AWG | Stranding | Conductor Material |
|--------------|---------|-----|-----------|--------------------|
|              | 3       | 24  | 7x32      | TC - Tinned Copper |
| 3            |         | 24  | 7x32      | TC - Tinned Copper |

**Insulation**

Insulation Material:

| Insulation Material |
|---------------------|
| PP - Polypropylene  |

**Inner Shield**

Inner Shield Material:

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

**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                         | 92           |

Outer Shield Drain Wire AWG:

| AWG | Stranding | Drain Wire Conductor Material |
|-----|-----------|-------------------------------|
| 24  | 7x32      | TC - Tinned Copper            |

**Outer Jacket**

Outer Jacket Material:

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

**Overall Cable**

Overall Cabling Separator Material:

Polyester Tape

Overall Nominal Diameter:

0.260 in.

**Pair**

Pair Color Code Chart:

| Number  | Color                |
|---------|----------------------|
| 78 Ohm  | Gray & White         |
| 78 Ohm  | Yellow & Orange      |
| 78 Ohm  | Blue & Green         |
| Triplet | Black, Red, & Purple |

## Pair Lay Length &amp; Direction:

| Lay Length (in.) | Twists/ft. (twist/ft) |
|------------------|-----------------------|
| 1.000            | 12.000                |
| 1.250            | 9.600                 |

**Mechanical Characteristics (Overall)**

|  |                          |
|--|--------------------------|
| Operating Temperature Range:           | -20°C To +80°C           |
| UL Temperature Rating:                 | 80°C (UL AWM Style 2919) |
| Bulk Cable Weight:                     | 43 lbs/1000 ft.          |
| Max. Recommended Pulling Tension:      | 64 lbs.                  |
| Min. Bend Radius (Install)/Minor Axis: | 2.600 in.                |

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

|                                       |                           |
|---------------------------------------|---------------------------|
| CEC/C(UL) Specification:              | CM                        |
| AWM Specification:                    | UL Style 2919 (30 V 80°C) |
| IEEE Specification:                   | IEEE802.3                 |
| 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) | Tolerance (Ohms) |
|-----------------|------------------|
| 78              | ± 5              |

**Nom. Capacitance Conductor to Conductor:**

| Capacitance (pF/ft) |
|---------------------|
| 19.7                |

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

| Capacitance (pF/ft) |
|---------------------|
| 35                  |

**Nominal Velocity of Propagation:**

| VP (%) |
|--------|
| 66     |

**Nominal Delay:**

| Delay (ns/ft) |
|---------------|
| 1.56          |

**Nom. Conductor DC Resistance:**

| Description | DCR @ 20°C (Ohm/1000 ft) |
|-------------|--------------------------|
| 28 AWG      | 65                       |
| 24 AWG      | 24                       |

## 9898 Multi-Conductor - 10 Base 5 Transceiver

## Nominal Outer Shield DC Resistance:

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 2.5                      |

## Max. Operating Voltage - UL:

| Voltage                      |
|------------------------------|
| 30 V RMS (UL AWM Style 2919) |
| 150 V RMS                    |

## Max. Recommended Current:

| Current                       |
|-------------------------------|
| 0.7 Amps per conductor @ 25°C |

## Related Documents:

No related documents are available for this product

## Put Ups and Colors:

| Item #       | Putup    | Ship Weight | Color           | Notes | Item Desc                |
|--------------|----------|-------------|-----------------|-------|--------------------------|
| 9898 E4X1000 | 1,000 FT | 44.000 LB   | GRAY, LIGHT DEC | C     | 3#24SH,3SHPR#28PP SH PVC |

## Notes:

C = CRATE REEL PUT-UP.

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