



## 9907 Coax - Coaxial Cable - Thinnet 10Base2 Ethernet

|   |  |   |
|---|--|---|
|  |  | <p>For more information please call<br/><b>1-800-Belden1</b></p> <p><u>See Put-ups and Colors</u></p> |
|---|--|---|

**Description:**

20 AWG stranded (19x32) .037" tinned copper conductor, foam polyethylene insulation, Duobond® II (100% coverage) plus an overall tinned copper braid shield (93% coverage), PVC jacket.

**SUITABLE APPLICATIONS:**

|                       |               |
|-----------------------|---------------|
| Suitable Applications | Thin Ethernet |
|-----------------------|---------------|

**PHYSICAL CHARACTERISTICS:**

**CONDUCTOR:**

|                            |                    |
|----------------------------|--------------------|
| Number of Coax             | 1                  |
| Total Number of Conductors | 1                  |
| RG Type                    | 58A/U              |
| AWG                        | 20                 |
| Stranding                  | 19x32              |
| Conductor Diameter         | .037 in.           |
| Conductor Material         | TC - Tinned Copper |

**INSULATION:**

|                     |  |
|---------------------|--|
| Insulation Material | FHDPE - Foam High Density Polyethylene |
| Insulation Diameter | .102 in.                               |

**OUTER SHIELD:**

|                                  |             |
|----------------------------------|-------------|
| Outer Shield Material Trade Name | Duobond® II |
| Outer Shield Type                | Tape/Braid  |

Outer Shield Material :

| Layer Number | Trade Name      | Type  | Material  | % Coverage (%) |
|--------------|-----------------|-------|---|----------------|
| 1            | Bonded Duofoil® | Tape  | Bonded Aluminum Foil-Polyester Tape-Aluminum Foil | 100            |
| 2            |                 | Braid | TC - Tinned Copper                                | 93             |

|                         |       |
|-------------------------|-------|
| Outer Shield % Coverage | 100 % |
|-------------------------|-------|

**OUTER JACKET:**

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

**OVERALL NOMINAL DIAMETER:**



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|                          |          |
|--------------------------|----------|
| Overall Nominal Diameter | .185 in. |
|--------------------------|----------|

**MECHANICAL CHARACTERISTICS:**

|                                  |                          |
|----------------------------------|--------------------------|
| Operating Temperature Range      | -40°C To +80°C           |
| UL Temperature Rating            | 60°C (UL AWM Style 1354) |
| Bulk Cable Weight                | 22.3 lbs/1000 ft.        |
| Max. Recommended Pulling Tension | 45 lbs.                  |
| Min. Bend Radius (Install)       | 1.8 in.                  |

**APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:**

**APPLICABLE STANDARDS:**

|  |                           |
|--|---------------------------|
| NEC/(UL) Specification                       | CM, CL2                   |
| CEC/C(UL) Specification                      | CM                        |
| AWM Specification                            | UL Style 1354 (30 V 60°C) |
| IEEE Specification                           | IEEE802.3 10Base2         |
| IEC Specification                            | ISO8802.3 10Base2         |
| EU CE Mark (Y/N)                             | Yes                       |
| EU RoHS Compliant (Y/N)                      | Yes                       |
| EU RoHS Compliance Date (mm/dd/yyyy):        | 01/01/2004                |
| Customer Part Number Reference Specification | DEC Part No. 17-01248-00  |

**FLAME TEST:**

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

**PLENUM/NON-PLENUM:**

|               |              |
|---------------|--------------|
| Plenum (Y/N)  | N            |
| Plenum Number | 82907, 89907 |

**ELECTRICAL CHARACTERISTICS:**

|   |                    |
|---|--------------------|
| Nom. Characteristic Impedance             | 50 +/- 2 Ohms      |
| Nom. Capacitance Conductor to Shield      | 25.4 pF/ft         |
| Nominal Velocity of Propagation           | 80 %               |
| Nominal Delay                             | 1.27 ns/ft         |
| Nom. Conductor DC Resistance @ 20 Deg. C  | 8.8 Ohms/1000 ft   |
| Nominal Outer Shield DC Resistance @ 20°C | 5.8 Ohms/1000 ft   |
| Maximum Loop Resistance                   | 15.24 Ohms/1000 ft |
| Nom. Attenuation :                        |                    |



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| Description | Frequency (MHz) | Start Frequency (MHz) | Stop Frequency (MHz) | Nom. Attenuation (dB/100 ft.) |
|-------------|-----------------|-----------------------|----------------------|-------------------------------|
|             | 1               |                       |                      | .43                           |
|             | 10              |                       |                      | 1.3                           |
|             | 50              |                       |                      | 2.91                          |
|             | 100             |                       |                      | 4.2                           |
|             | 200             |                       |                      | 6.1                           |
|             | 400             |                       |                      | 8.9                           |
|             | 700             |                       |                      | 12.1                          |
|             | 900             |                       |                      | 13.9                          |
|             | 1000            |                       |                      | 14.8                          |

Max. Operating Voltage - UL 300 V RMS, 30 V RMS (UL AWM Style 1354)

**NOTES:**

Notes Tape to bond at overlap area only. Tape is not designed to bond to dielectric core.

**PUT-UPS AND COLORS:**

| Item          | Description     | Put-Up (ft.) | Ship Weight (lbs.) | Jacket Color    | Notes |
|---------------|-----------------|--------------|--------------------|-----------------|-------|
| 9907 E4X1000  | RG-58 TYPE COAX | 1000         | 24                 | GRAY, LIGHT DEC | C     |
| 9907 E4X1640  | RG-58 TYPE COAX | 1640         | 41                 | GRAY, LIGHT DEC | C     |
| 9907 E4X2500  | RG-58 TYPE COAX | 2500         | 62.5               | GRAY, LIGHT DEC | C     |
| 9907 E4X3280  | RG-58 TYPE COAX | 3280         | 82                 | GRAY, LIGHT DEC | C     |
| 9907 E4X500   | RG-58 TYPE COAX | 500          | 12.5               | GRAY, LIGHT DEC |       |
| 9907 E4XU1000 | RG-58 TYPE COAX | U1000        | 24                 | GRAY, LIGHT DEC |       |

C = CRATE REEL PUT-UP.

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#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.