



Product: [9907](#)



Thinnet 10BASE2, #20, FPO, Duobond II+TC Braid, PVC Jkt, CM

Product Description

IEEE 802.3 Ethernet Thinnet 10BASE2, 20 AWG stranded (19x32) .037" tinned copper conductor, foam polyethylene insulation, Duobond® II (100% coverage) + an overall tinned copper braid shield (93% coverage), PVC jacket.

Technical Specifications

Product Overview

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

Construction Details

|          |    |
|----------|----|
| RG Type: | 58 |
|----------|----|

Conductor

| Element  | No. of Elements | Size   | Stranding | Nom. Diameter | Material           |
|----------|-----------------|--------|-----------|---------------|--------------------|
| Coax(es) | 1               | 20 AWG | 19x32     | 0.037 in      | TC - Tinned Copper |

Insulation

| Element  | Material                 | Nom. Insulation Diameter | Color Code | Notes |
|----------|--------------------------|--------------------------|------------|-------|
| Coax(es) | PE - Polyethylene (Foam) | 0.102 in (2.59 mm)       | White      | HDPE  |

Outer Shield

| Layer | Outer Shield Type | Material                      | Material Trade Name | Coverage |
|-------|-------------------|-------------------------------|---------------------|----------|
| 1     | Tape              | Tri-Laminate (Alum+Poly+Alum) | Duofoil®            | 100%     |
| 2     | Braid             | Tinned Copper (TC)            |                     | 93%      |

Outer Jacket

| Material                 | Nom. Diameter      |
|--------------------------|--------------------|
| PVC - Polyvinyl Chloride | 0.185 in (4.70 mm) |

Electrical Characteristics

Attenuation

| Frequency | Nom. Attenuation |
|-----------|------------------|
| 1 MHz     | 0.43 dB/100ft    |
| 10 MHz    | 1.3 dB/100ft     |
| 50 MHz    | 2.91 dB/100ft    |
| 100 MHz   | 4.2 dB/100ft     |
| 200 MHz   | 6.1 dB/100ft     |
| 400 MHz   | 8.9 dB/100ft     |
| 700 MHz   | 12.1 dB/100ft    |
| 900 MHz   | 13.9 dB/100ft    |
| 1000 MHz  | 14.8 dB/100ft    |

Electricals

| Nom. Conductor DCR | Nom. Outer Shield DCR      | Nom. Capacitance Cond-to-Shield | Nom. Characteristic Impedance | Nom. Velocity of Prop. | Max. Delay Skew |
|--------------------|----------------------------|---------------------------------|-------------------------------|------------------------|-----------------|
| 8.8 Ohm/1000ft     | 5.8 Ohm/1000ft (19 Ohm/km) | 25.4 pF/ft (83.3 pF/m)          | 50 Ohm                        | 80%                    | 80 ns/100m      |

Voltage

| UL Voltage Rating   |
|---------------------|
| 300 V RMS, 30 V RMS |

|                                   |                       |
|-----------------------------------|-----------------------|
| Electrical Characteristics Notes: | UL AWM 1354: 30 V RMS |
|-----------------------------------|-----------------------|

Mechanical Characteristics

Temperature

| UL Temperature | Operating      |
|----------------|----------------|
| 75°C           | -40°C To +80°C |

Bend Radius

| Stationary Min.   | Installation Min. |
|-------------------|-------------------|
| 1.85 in (47.0 mm) | 1.85 in (47.0 mm) |

|                    |                |
|--------------------|----------------|
| Max. Pull Tension: | 54 lbs (24 kg) |
| Bulk Cable Weight: | 23 lbs/1000ft  |

Standards and Compliance

|                                  |                                                                                                                           |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Environmental Suitability:       | Indoor, Indoor                                                                                                            |
| Flammability / Reaction to Fire: | UL1685 UL Loading, IEC 60332-1-2                                                                                          |
| CPR Compliance:                  | CPR Euroclass: Eca                                                                                                        |
| NEC / UL Compliance:             | Article 725, Article 800, CL2, CM                                                                                         |
| AWM Compliance:                  | AWM 1354                                                                                                                  |
| CEC / C(UL) Compliance:          | CM                                                                                                                        |
| IEEE Compliance:                 | IEEE 802.3 10Base2                                                                                                        |
| European Directive Compliance:   | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| UK Regulation Compliance:        | UKCA Mark                                                                                                                 |
| APAC Compliance:                 | China RoHS II (GB/T 26572-2011)                                                                                           |
| Other Standard Compliance(s):    | DEC Part No. 17-01248-00, ISO8802.3 10Base2                                                                               |
| Plenum Number:                   | 82907, 89907                                                                                                              |

Product Notes

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Notes: | Tape to bond at overlap area only. Tape is not designed to bond to dielectric core.//PF_9907 (1)# Elements@Conductor1:-In Stibo it was Blank and now changed it to 1. (2)Size@Conductor1 :-In Stibo it was 20 now changed to 20 AWG (3)Color@Color Chart1 01 :- In stibo it was Blank now Changed to White (4)Coverage@OuterShield1 2 - in stibo it was 80% Now changed to 81% (5)Cable diameter- it was blank now changed to 0.185 in (6)Nominal Diameter@ Outer Jacket1 3- In Stibo it was 0.279 in Now Changed to Blank |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.497 Revision Date: 05-31-2023 |
|----------------------|--------------------------------------------------|

Part Numbers

Variants

| Item #        | Color | Putup Type | Length   | UPC/EAN       | Footnote |
|---------------|-------|------------|----------|---------------|----------|
| 9907.00152    | Gray  | Reel       | 152 m    | 8719605023483 |          |
| 9907.00305    | Gray  | Reel       | 305 m    | 8719605023490 |          |
| 9907.00U305   | Gray  | Reel       | 305 m    | 8719605023513 |          |
| 9907 E4X500   | Gray  | Reel       | 500 ft   | 612825260561  |          |
| 9907.00500    | Gray  | Reel       | 500 m    | 8719605023506 |          |
| 9907 E4X1000  | Gray  | Reel       | 1,000 ft | 612825260523  | C        |
| 9907 E4XU1000 | Gray  | UnReel     | 1,000 ft | 612825260516  |          |
| 9907.001000   | Gray  | Reel       | 1,000 m  | 8719605023476 |          |
| 9907 E4X1640  | Gray  | Reel       | 1,640 ft | 612825260530  | C        |
| 9907 E4X2500  | Gray  | Reel       | 2,500 ft | 612825260547  | C        |
| 9907 E4X3280  | Gray  | Reel       | 3,280 ft | 612825260554  | C        |
| 9907 E4X5000  | Gray  | Reel       | 5,000 ft | 612825260578  |          |

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