

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 |
|------------------------|---------------|

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | Nominal Diameter | No. of Coax |
|-----|-----------|--------------------|------------------|-------------|
| 20 | 19x32 | TC - Tinned Copper | 0.037 in | 1 |

| | |
|------------------|---|
| Conductor Count: | 1 |
|------------------|---|

Insulation

| Material | Nominal Diameter |
|--------------------------|------------------|
| PE - Polyethylene (Foam) | 0.102 in |

Outer Shield

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

Outer Jacket

| Material | Nominal Diameter |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 0.185 in |
| | 0.279 in |

Electrical Characteristics

Conductor DCR

| Max. Conductor Loop | Nominal Conductor DCR | Nominal Outer Shield DCR | Outer Conductor DCR |
|---------------------|-----------------------|--------------------------|---------------------|
| 15.24 Ohm/1000ft | 8.8 Ohm/1000ft | 5.8 Ohm/1000ft | 5.8 Ohm/1000ft |

Capacitance

| Nom. Capacitance Conductor to Shield |
|--------------------------------------|
| 25.4 pF/ft |

Inductance

| Nominal Inductance |
|--------------------|
| 0.27 µH/m |

Impedance

| Nominal Characteristic Impedance | Nominal Characteristic Tolerance |
|----------------------------------|----------------------------------|
| 50 Ohm | ± 2 Ohm |

High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 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 |

Delay

| Max. Delay Skew | Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|-----------------|---------------|--|
| 80 ns/100m | 1.27 ns/ft | 80% |

Voltage

| UL Description | UL Voltage Rating |
|-------------------|-------------------|
| | 300 V RMS |
| UL AWM Style 1354 | 30 V RMS |

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

Temperature Range

| | |
|-----------------------|----------------|
| UL Temp Rating: | 60°C |
| Operating Temp Range: | -40°C To +80°C |

Mechanical Characteristics

| | |
|------------------------------|---------------|
| Bulk Cable Weight: | 23 lbs/1000ft |
| Max. Pull Tension: | 45 lbs |
| Min. Bend Radius/Minor Axis: | 2 in |

Standards

| | |
|------------------------------|--------------------------|
| Customer Reference Document: | DEC Part No. 17-01248-00 |
| NEC/(UL) Compliance: | CL2, CM |
| CEC/C(UL) Compliance: | CM |
| UL AWM Style Compliance: | AMW 1354 (30 V 60°C) |
| CPR Euroclass: | Eca |
| IEEE Compliance: | 802.3 10Base2 |
| RG Type: | 58 |
| Other Standards: | ISO8802.3 10Base2 |

Applicable Environmental and Other Programs

| | |
|--|-------------------------------|
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2003/96/EC (BFR): | Yes |
| EU Directive 2011/65/EU (RoHS 2): | Yes |
| EU Directive 2012/19/EU (WEEE): | Yes |
| EU Directive 2015/863/EU (RoHS 2 amendment): | Yes |
| EU Directive Compliance: | EU Directive 2003/11/EC (BFR) |
| EU CE Mark: | Yes |
| MII Order #39 (China RoHS): | Yes |

Suitability

| | |
|-----------------------|-----|
| Suitability - Indoor: | Yes |
|-----------------------|-----|

Flammability, LS0H, Toxicity Testing

| | |
|--------------------|-------------------|
| UL Flammability: | UL1685 UL Loading |
| IEC Flammability: | IEC 60332-1-2 |
| UL voltage rating: | 300 V RMS |

Plenum/Non-Plenum

| | |
|----------------|--------------|
| Plenum (Y/N): | No |
| Plenum Number: | 82907, 89907 |

Related Part Numbers

Variants

| Item # | Color | Put-Up Type | Length | UPC/EAN |
|---------------|-------|-------------|----------|---------------|
| 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 |
| 9907 E4XU1000 | Gray | UnReel | 1,000 ft | 612825260516 |
| 9907.001000 | Gray | Reel | 1,000 m | 8719605023476 |
| 9907 E4X1640 | Gray | Reel | 1,640 ft | 612825260530 |
| 9907 E4X2500 | Gray | Reel | 2,500 ft | 612825260547 |
| 9907 E4X3280 | Gray | Reel | 3,280 ft | 612825260554 |
| 9907 E4X5000 | Gray | Reel | 5,000 ft | 612825260578 |

| | |
|-----------|------------------------|
| Footnote: | C - CRATE REEL PUT-UP. |
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Product Notes

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

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| Update and Revision: | Revision Number: 0.361 Revision Date: 12-15-2021 |
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