



Product: [89907](#)

Thinnet 10BASE2, RG-58A/U Type, #20 Str, FFEP, Duobond II+TC Braid, PVDF Jkt, CMP

Product Description

IEEE 802.3 Ethernet Thinnet 10BASE2, 20 AWG (19x32) tinned copper conductor, foam FEP insulation, Duobond® II (100% coverage) + tinned copper braid shield (95% coverage), fluorocopolymer jacket, CMP

Technical Specifications

Product Overview

| | |
|------------------------|------------------------------------|
| Suitable Applications: | Thin Ethernet (IEEE 802.3 10BASE2) |
|------------------------|------------------------------------|

Construction Details

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

Conductor

| Size | Stranding | Nom. Diameter | Material |
|--------|-----------|---------------|--------------------|
| 20 AWG | 19x32 | 0.037 in | TC - Tinned Copper |

Insulation

| Material | Nom. Insulation Diameter | Color Code |
|------------------------------|--------------------------|------------|
| PFA - Perfluoroalkoxy (Foam) | 0.100 in (2.54 mm) | White |

Outer Shield

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

Outer Jacket

| Material | Nom. Diameter |
|--------------------------------|--------------------|
| PVDF - Polyvinylidene Fluoride | 0.165 in (4.19 mm) |

| | |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.165 in (4.19 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 | 4.18 dB/100ft |
| 200 MHz | 6.1 dB/100ft |
| 400 MHz | 9.2 dB/100ft |
| 700 MHz | 12.9 dB/100ft |
| 900 MHz | 15.0 dB/100ft |
| 1000 MHz | 16.0 dB/100ft |

Power Rating

| Frequency | Max. Power Rating |
|-----------|-------------------|
|-----------|-------------------|

| | |
|-----------|---------|
| 1 MHz | 6,450 W |
| 10 MHz | 1,850 W |
| 50 MHz | 890 W |
| 100 MHz | 640 W |
| 200 MHz | 470 W |
| 400 MHz | 360 W |
| 700 MHz | 290 W |
| 900 MHz | 270 W |
| 1,000 MHz | 260 W |

Electricals

| Nom. Conductor DCR | Nom. Outer Shield DCR | Nom. Capacitance Cond-to-Shield | Nom. Characteristic Impedance | Nom. Velocity of Prop. |
|----------------------------|----------------------------|---------------------------------|-------------------------------|------------------------|
| 8.5 Ohm/1000ft (28 Ohm/km) | 5.8 Ohm/1000ft (19 Ohm/km) | 26.0 pF/ft (85.3 pF/m) | 50 Ohm | 80% |

Voltage

| UL Voltage Rating |
|-------------------|
| 300 V (CMP) |

Mechanical Characteristics

Temperature

| UL Temperature | Operating |
|----------------|-----------------|
| 150°C | -15°C to +150°C |

Bend Radius

| Installation Min. |
|-------------------|
| 1.6 in (41 mm) |

| | |
|--------------------|----------------|
| Max. Pull Tension: | 45 lbs (20 kg) |
| Bulk Cable Weight: | 26 lbs/1000ft |

Standards and Compliance

| | |
|----------------------------------|--|
| Environmental Suitability: | Indoor - Plenum, Aerial - When supported by messenger wire |
| Sustainability: | CA Prop 65 |
| Flammability / Reaction to Fire: | NFPA 262 |
| CPR Compliance: | CPR Euroclass: Eca |
| CEC / C(UL) Compliance: | CMP |
| IEEE Compliance: | 802.3 10Base2 |
| European Directive Compliance: | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, 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) |
| Non-Plenum Number: | 9907 |

History

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|----------------------|--|
| Update and Revision: | Revision Number: 0.523 Revision Date: 02-03-2025 |
|----------------------|--|

Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC | Footnote |
|---------------|-----------------|------------|----------|--------------|----------|
| 89907 E4X500 | Gray, Light Dec | Reel | 500 ft | 612825221449 | C |
| 89907 E4X1000 | Gray, Light Dec | Reel | 1,000 ft | 612825221425 | C |
| 89907 E4X2500 | Gray, Light Dec | Reel | 2,500 ft | 612825221432 | C Z |

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