



Product: [89880](#) 

50Ω, #12 Sol BC, FFEP Ins, Duobond IV® quad shield, PVDF Jkt, CMP

Product Description

Ethernet 50 Ω 10BASE5, 12 AWG solid bare copper conductor, foam FEP insulation, Overall Duobond® II+Tinned Copper Braid (90%)+Duofoil®+Tinned Copper Braid(90%) Shield, fluorocopolymer jacket, CMP

Technical Specifications

Product Overview

| | |
|------------------------|-------------------------------------|
| Suitable Applications: | Thick Ethernet (IEEE 802.3 10BASE5) |
|------------------------|-------------------------------------|

Construction Details

| | |
|----------|---|
| RG Type: | 8 |
|----------|---|

Conductor

| AWG | Stranding | Nom. Diameter | Material |
|-----|-----------|---------------|------------------|
| 12 | Solid | 0.086 in | BC - Bare Copper |

Insulation

| Material | Nom. Diameter |
|---|---------------|
| FEP - Fluorinated Ethylene Propylene (Foam) | 0.245 in |

Outer Shield Material

| Layer | Outer Shield Type | Material | Material Trade Name | Coverage |
|-------|-------------------|-------------------------------|---------------------|----------|
| 1 | Tape | Tri-Laminate (Alum+Poly+Alum) | Duobond® II | 100% |
| 2 | Braid | Tinned Copper (TC) | | 90% |
| 3 | Tape | Tri-Laminate (Alum+Poly+Alum) | Duofoil® | 100% |
| 4 | Braid | Tinned Copper (TC) | | 90% |

Outer Jacket Material

| Material | Nom. Diameter |
|--------------------------------|---------------|
| PVDF - Polyvinylidene Fluoride | 0.365 in |

Electrical Characteristics

Attenuation

| Frequency | Nom. Attenuation [dB/100ft] |
|-----------|-----------------------------|
| 1 MHz | 0.18 dB/100ft |
| 5 MHz | 0.37 dB/100ft |
| 10 MHz | 0.52 dB/100ft |
| 50 MHz | 1.15 dB/100ft |
| 100 MHz | 1.65 dB/100ft |
| 200 MHz | 2.45 dB/100ft |
| 400 MHz | 3.80 dB/100ft |
| 700 MHz | 5.60 dB/100ft |
| 900 MHz | 6.80 dB/100ft |
| 1000 MHz | 7.20 dB/100ft |

Power Rating

| Frequency [MHz] | Max. Power Rating [W] |
|-----------------|-----------------------|
| 1 MHz | 15,900 W |
| 5 MHz | 6,928 W |
| 10 MHz | 4,802 W |
| 50 MHz | 1,992 W |
| 100 MHz | 1,344 W |
| 200 MHz | 900 W |
| 400 MHz | 602 W |
| 700 MHz | 438 W |
| 900 MHz | 382 W |
| 1,000 MHz | 361 W |

Electricals

| Nom. Conductor DCR | Nom. Outer Shield DCR | Nom. Capacitance Cond-to-Shield | Nom. Impedence | Nom. Velocity |
|--------------------|-----------------------|---------------------------------|----------------|---------------|
| 1.4 Ohm/1000ft | 1.5 Ohm/1000ft | 26.0 pF/ft | 50 Ohm | 78% |

Voltage

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

Mechanical Characteristics

Temperature

| UL Rating | Operating |
|-----------|-----------------|
| 150°C | -25°C to +150°C |

Bend Radius

| Installation Min. |
|-------------------|
| 6.0 in |

| | |
|--------------------|----------------|
| Bulk Cable Weight: | 124 lbs/1000ft |
| Max. Pull Tension: | 231 lbs |

Standards and Compliance

| | |
|---------------------------------|---|
| Environmental Suitability: | Indoor - Plenum, Indoor |
| Sustainability: | CA Prop 65 |
| Flammability / Fire Resistance: | NFPA 262, FT6 |
| NEC / UL Compliance: | CL2P, CMP |
| CEC / C(UL) Compliance: | CMP |
| IEEE Compliance: | 802.3 10Base5 |
| European Directive Compliance: | EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |
| Other Standard Compliance(s): | DEC Part No. 17-00324-00 |
| Non-Plenum Number: | 9880 |

Product Notes

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| Notes: | Ring-band stripes every 2.5 meters to aid users in tap placement. |
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History

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| Update and Revision: | Revision Number: 0.297 Revision Date: 09-30-2020 |
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