
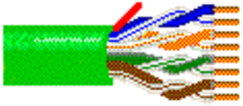


Product: [7988P](#) 



Low Skew, Category 5e, 4-24 AWG pairs, CMP

Product Description

Category 5e, 24 AWG bonded pairs solid bare copper conductors, plenum, FEP Teflon® insulation, skew 9.0ns/100m nominal, rip cord, Flamarrest® jacket.

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Suitable Applications: | Category 5e, UTP Based Video Applications, and KVM |
|------------------------|--|

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | No. of Pairs |
|-----|-----------|------------------|--------------|
| 24 | Solid | BC - Bare Copper | 4 |

| | |
|------------------------|---|
| Conductor Count: | 8 |
| Total Number of Pairs: | 4 |

Insulation

| Material |
|--------------------------------------|
| FEP - Fluorinated Ethylene Propylene |

| | |
|--------------|-----|
| Bonded-Pair: | N/A |
|--------------|-----|

Color Chart

| Number | Color |
|--------|------------------------------|
| 1 | White/Blue Stripe & Blue |
| 2 | White/Orange Stripe & Orange |
| 3 | White/Green Stripe & Green |
| 4 | White/Brown Stripe & Brown |

Outer Shield Material

| Material |
|-----------|
| No Shield |

Outer Jacket Material

| Material | Material Trade Name | Nominal Diameter | Ripcord |
|--------------------------|---------------------|------------------|---------|
| PVC - Polyvinyl Chloride | Flamarrest® | 0.193 in | Yes |

Electrical Characteristics

Conductor DCR

| Max. Conductor DCR | Max. DCR Unbalance |
|--------------------|--------------------|
| 90 Ohm/km | 3 % |

Capacitance

| Max. Capacitance Unbalance |
|----------------------------|
| 66 |

Delay

Typical Delay Skew

0.027 ns/100m

High Freq

| Frequency [MHz] | Max. Insertion Loss (Attenuation) | Min. NEXT [dB] | Min. PSNEXT [dB] | Min. ACR [dB] | Min. PSACR [dB] | Min. ACRF (ELFEXT) [dB] | Min. PSACRF (PSELFEXT) [dB] | Min. RL (Return Loss) [dB] | Max./Min. Input Impedance (unFitted) | Max./Min. Fitted Impedance |
|-----------------|-----------------------------------|----------------|------------------|---------------|-----------------|-------------------------|-----------------------------|----------------------------|--------------------------------------|----------------------------|
| 1 MHz | 2 dB/100m | 65.3 dB | 65.3 dB | 60.3 dB | 60.3 dB | 63.8 dB | 60.8 dB | 20 dB | 100 ± 15 | 100 ± 15 |
| 4 MHz | 4.1 dB/100m | 56.3 dB | 53.3 dB | 49.2 dB | 49.2 dB | 51.7 dB | 48.7 dB | 23 dB | 100 ± 15 | 100 ± 15 |
| 8 MHz | 5.8 dB/100m | 51.8 dB | 48.8 dB | 43 dB | 43 dB | 45.7 dB | 42.7 dB | 24.5 dB | 100 ± 15 | 100 ± 15 |
| 10 MHz | 6.5 dB/100m | 50.3 dB | 47.3 dB | 40.8 dB | 40.8 dB | 43.8 dB | 40.8 dB | 25 dB | 100 ± 15 | 100 ± 15 |
| 16 MHz | 8.2 dB/100m | 47.3 dB | 44.3 dB | 36 dB | 36 dB | 39.7 dB | 36.7 dB | 25 dB | 100 ± 15 | 100 ± 15 |
| 20 MHz | 9.3 dB/100m | 45.8 dB | 42.8 dB | 33.5 dB | 33.5 dB | 37.7 dB | 34.7 dB | 25 dB | 100 ± 15 | 100 ± 15 |
| 25 MHz | 10.4 dB/100m | 44.3 dB | 41.3 dB | 30.9 dB | 30.9 dB | 35.8 dB | 32.8 dB | 24.3 dB | 100 ± 15 | 100 ± 15 |
| 31.25 MHz | 11.7 dB/100m | 42.9 dB | 39.9 dB | 28.2 dB | 28.2 dB | 33.9 dB | 30.9 dB | 23.6 dB | 100 ± 15 | 100 ± 15 |
| 62.5 MHz | 17 dB/100m | 38.4 dB | 35.4 dB | 18.4 dB | 18.4 dB | 27.8 dB | 24.8 dB | 21.5 dB | 100 ± 15 | 100 ± 15 |
| 100 MHz | 22 dB/100m | 35.3 dB | 32.3 dB | 10.3 dB | 10.3 dB | 23.8 dB | 20.8 dB | 20.1 dB | 100 ± 15 | 100 ± 15 |
| 155 MHz | 28.1 dB/100m | 32.5 dB | 29.54 dB | 2 dB | 2 dB | 19.9 dB | 16.9 dB | 15.8 dB | 100 ± 25 | 100 ± 15 |
| 200 MHz | 32.4 dB/100m | 30.8 dB | 27.8 dB | 1 dB | 1 dB | 17.7 dB | 14.7 dB | 15 dB | 100 ± 25 | 100 ± 15 |

Voltage**UL Voltage Rating**

300 V RMS

Temperature Range

Operating Temp Range: -20°C To +75°C

Mechanical Characteristics

Bulk Cable Weight: 21 lbs/1000ft

Max. Pull Tension: 40 lbs

Min Bend Radius/Minor Axis: 2 in

Standards

| | |
|-----------------------|--|
| NEC/(UL) Compliance: | CMP |
| CEC/C(UL) Compliance: | CMP |
| IEC Compliance: | ISO11801 Category 5 |
| TIA/EIA Compliance: | ANSI/TIA/EIA-568-B.2 Category 5e |
| Other Compliance: | NEMA WC-63.1 Category 5e, UL Verified to Category 5e |

Applicable Environmental and Other Programs

| | |
|---------------------------------------|-------------------------------|
| Environmental Space: | Indoor - Plenum |
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2003/11/EC (BFR): | Yes |
| EU Directive 2011/65/EU (ROHS II): | Yes |
| EU Directive 2012/19/EU (WEEE): | Yes |
| EU Directive 2015/863/EU: | Yes |
| EU Directive Compliance: | EU Directive 2003/11/EC (BFR) |
| EU CE Mark: | Yes |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2005-01-01 |
| MII Order #39 (China RoHS): | Yes |

Suitability

Suitability - Indoor: Yes

Flammability, LS0H, Toxicity Testing

| | |
|--------------------|-----------|
| UL Flammability: | NFPA 262 |
| CSA Flammability: | FT6 |
| UL voltage rating: | 300 V RMS |

Plenum/Non-Plenum

Plenum (Y/N): Yes

Part Number

Non-Plenum Number: 7988R

Variants

| Item # | Color | Putup Type | Length | UPC |
|----------------|------------|------------|----------|--------------|
| 7988P N3UU1000 | Green, Mil | UnReel | 1,000 ft | 612825192541 |

Product Notes

Notes: Jacket sequentially marked at 2 ft. intervals. Electricals are preliminary, final data is pending.

History

Update and Revision: Revision Number: 0.277 Revision Date: 04-28-2020

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