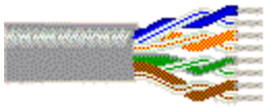


Part Number: 1752A



CAT5e+ Patch Bonded-Pair, 4pr, UTP, PVC Jkt, CMR

Product Description

CAT5e+ (350MHz), 4-Bonded-Pair, U/UTP-unshielded, Riser-CMR, Premise Patch cable, 24 AWG Bonded stranded (7x32) tinned copper conductors, polyolefin insulation, PVC jacket, RJ-45 compatible

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Environmental Space: | Indoor |
| Suitable Applications: | Premise Patch Cable Designed for Attenuation Stability in High Humidity Environments, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU, Digital Video, RS-422, Noisy Environments |

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | No. of Pairs |
|-----|-----------|------------------------------------|--------------|
| 24 | 7x32 | TC - Tinned Copper, Bonded Strands | 4 |

| | |
|------------------------|--------|
| Conductor Count: | 8 |
| Total Number of Pairs: | 4 |
| Conductor Size: | 24 AWG |

Insulation

| Material |
|-----------------|
| PO - Polyolefin |

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 Jacket Material

| Material | Nominal Diameter | Ripcord |
|--------------------------|------------------|---------|
| PVC - Polyvinyl Chloride | 0.220 in | No |

Electrical Characteristics

Conductor DCR

| Max. Conductor DCR | Max. DCR Unbalance |
|--------------------|--------------------|
| 9 Ohm/100m | 3 % |

Capacitance

| Max. Capacitance Unbalance | Nom.Mutual Capacitance |
|----------------------------|------------------------|
| 160 pF/100m | 15 pF/ft |

| | |
|------------|--------------------|
| Shielding: | U/UTP - Unshielded |
|------------|--------------------|

Delay

| Max. Delay | Max. Delay Skew | Nominal Velocity of Propagation (VP) [%] |
|-------------------------|-----------------|--|
| @ 100 MHz 537.6 ns/100m | 25 ns/100m | 70 % |

High Freq

| Frequency [MHz] | Max. Insertion Loss (Attenuation) | Min. NEXT [dB] | Min. PSNEXT [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 | 2.4 dB/100m | 65.3 dB | 65.3 dB | 63.8 dB | 60.8 dB | 20.0 dB | 100 ± 12 Ohm | 105 ± 10 Ohm |
| 4 MHz | 4.8 dB/100m | 56.3 dB | 56.3 dB | 51.7 dB | 48.7 dB | 23.0 dB | 100 ± 12 Ohm | 100 ± 10 Ohm |
| 8 MHz | 6.8 dB/100m | 51.8 dB | 51.8 dB | 45.7 dB | 42.7 dB | 24.5 dB | 100 ± 12 Ohm | 100 ± 10 Ohm |
| 10 MHz | 7.7 dB/100m | 50.3 dB | 50.3 dB | 43.8 dB | 40.8 dB | 25.0 dB | 100 ± 12 Ohm | 100 ± 10 Ohm |
| 16 MHz | 9.8 dB/100m | 47.3 dB | 47.3 dB | 39.7 dB | 36.7 dB | 25.0 dB | 100 ± 12 Ohm | 100 ± 10 Ohm |
| 20 MHz | 11.0 dB/100m | 45.8 dB | 45.8 dB | 37.7 dB | 34.7 dB | 25.0 dB | 100 ± 12 Ohm | 100 ± 10 Ohm |
| 25 MHz | 12.4 dB/100m | 44.3 dB | 44.3 dB | 35.8 dB | 32.8 dB | 19.0 dB | 100 ± 15 Ohm | 100 ± 10 Ohm |
| 31.25 MHz | 13.9 dB/100m | 42.9 dB | 42.9 dB | 33.9 dB | 30.9 dB | 19.0 dB | 100 ± 15 Ohm | 100 ± 10 Ohm |
| 62.5 MHz | 20.1 dB/100m | 38.4 dB | 38.4 dB | 27.8 dB | 24.8 dB | 19.0 dB | 100 ± 15 Ohm | 100 ± 10 Ohm |
| 100 MHz | 26.1 dB/100m | 35.3 dB | 35.3 dB | 23.8 dB | 20.8 dB | 19.0 dB | 100 ± 15 Ohm | 100 ± 10 Ohm |
| 155 MHz | 33.3 dB/100m | 32.5 dB | 32.5 dB | 19.9 dB | 16.9 dB | 19.0 dB | 100 ± 18 Ohm | 100 ± 10 Ohm |
| 200 MHz | 38.4 dB/100m | 30.8 dB | 30.8 dB | 17.7 dB | 14.7 dB | 19.0 dB | 100 ± 18 Ohm | 100 ± 10 Ohm |
| 250 MHz | 43.7 dB/100m | 29.3 dB | 29.3 dB | 15.8 dB | 12.8 dB | 18.0 dB | 100 ± 20 Ohm | 100 ± 10 Ohm |
| 300 MHz | 48.6 dB/100m | 28.2 dB | 28.2 dB | 14.2 dB | 11.2 dB | 18.0 dB | 100 ± 20 Ohm | 100 ± 10 Ohm |
| 310 MHz | 49.5 dB/100m | 27.9 dB | 27.9 dB | 13.9 dB | 10.9 dB | 18.0 dB | 100 ± 20 Ohm | 100 ± 10 Ohm |
| 350 MHz | 53.2 dB/100m | 27.2 dB | 27.2 dB | 12.9 dB | 9.9 dB | 17.0 dB | 100 ± 22 Ohm | 100 ± 10 Ohm |

Voltage

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

Temperature Range

| | |
|--------------------------|----------------|
| Installation Temp Range: | 0°C To +50°C |
| UL Temp Rating: | 75°C |
| Storage Temp Range: | -20°C To +75°C |
| Operating Temp Range: | -20°C To +75°C |

Mechanical Characteristics

| | |
|----------------------------------|---------------|
| Bulk Cable Weight: | 21 lbs/1000ft |
| Max Recommended Pulling Tension: | 40 lbs |
| Min Bend Radius/Minor Axis: | 1.0 in |
| Min Bend Radius/Installation: | 2.2 in |

Standards

| | |
|---------------------------------------|--|
| NEC/(UL) Specification: | CM |
| CEC/C(UL) Specification: | CM |
| ISO/IEC Compliance: | 11801 ed 2.2 (2011) Class D Patch |
| Data Category: | Category 5e |
| ANSI Compliance: | S-90-661-2012 Category 5e Patch, ANSI/NEMA WC-63.1 Category 5e Patch |
| Telecommunications Standards: | ANSI/TIA-568-C.2 Category 5e Patch |
| IEEE Specification: | POE per 802.3af & POE+ per 802.3at-2009 |
| Third Party Performance Verification: | Category 5e Patch |

Applicable Environmental and Other Programs

| | |
|--|------------|
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2003/11/EC (BFR): | Yes |
| EU Directive 2003/96/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: | Yes |
| EU CE Mark: | Yes |
| EU REACH SVHC Compliance (yyyy-mm-dd): | 2017-07-10 |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2004-01-01 |
| CA Prop 65 (CJ for Wire & Cable): | Yes |

| | |
|-----------------------------|-----|
| MII Order #39 (China RoHS): | Yes |
|-----------------------------|-----|

Suitability

| | |
|------------------------------------|-----|
| Suitability - Aerial: | No |
| Suitability - Burial: | No |
| Suitability - Hazardous Locations: | No |
| Suitability - Indoor: | Yes |
| Suitability - Non-Halogenated: | No |
| Suitability - Oil Resistance: | No |
| Suitability - Outdoor: | No |
| Suitability - Sunlight Resistance: | No |

Flammability, LSOH, Toxicity Testing

| | |
|--------------------|---------------------------------|
| UL Flammability: | UL 1685 (UL 1581) Vertical Tray |
| UL Voltage Rating: | 300 V RMS |

Plenum/Non-Plenum

| | |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

Part Number

Variants

| Item # | Color | Footnote |
|----------------|--------|----------|
| 1752A 0101000 | BLACK | C |
| 1752A 010U1000 | BLACK | |
| 1752A 0061000 | BLUE | C |
| 1752A 006U1000 | BLUE | |
| 1752A F2V1000 | GRAY | C |
| 1752A F2VU1000 | GRAY | |
| 1752A 0051000 | GREEN | C |
| 1752A 005U1000 | GREEN | |
| 1752A 0031000 | ORANGE | C |
| 1752A 003U1000 | ORANGE | |
| 1752A 007U1000 | PURPLE | |
| 1752A 0021000 | RED | C |
| 1752A 002U1000 | RED | |
| 1752A 0041000 | YELLOW | C |
| 1752A 004U1000 | YELLOW | |

| | |
|-----------|---|
| Footnote: | C - CRATE REEL PUT-UP. |
| Patent: | http://www.belden.com/p |

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