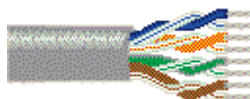


1752A Multi-Conductor - Enhanced Category 5e Bonded-Pair Patch Cable



For more Information
please call

1-800-Belden1



Description:

24 AWG Bonded-Pairs, Bonded Stranded (7x32) Tinned Copper Conductors, Non-Plenum, Polyolefin Insulation, RJ-45 Compatible, PVC Jacket

Usage (Overall)

Suitable Applications:

Premise Patch Cable, 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:

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|------------------------------------|
| 4 | 24 | 7x32 | TC - Tinned Copper, Bonded Strands |

Insulation

Insulation Material:

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

Outer Shield

Outer Shield Material:

| Outer Shield Material |
|-----------------------|
| Unshielded |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material |
|--------------------------|
| PVC - Polyvinyl Chloride |

Outer Jacket Diameter:

| Nom. Dia. (in.) |
|-----------------|
| 0.220 |

Overall Cabling

Overall Nominal Diameter: 0.220 in.

Pair

Pair Color Code Chart:

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

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +80°C

Bulk Cable Weight: 25 lbs/1000 ft.

Max. Recommended Pulling Tension: 40 lbs.

Min. Bend Radius (Install)/Minor Axis: 0.750 in.

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Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|--|--|
| CEC/C(UL) Specification: | CM |
| Other Standards: | ISO/IEC 11801 ed 2.1 (2008) Class D |
| EU CE Mark: | Yes |
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2002/95/EC (RoHS): | Yes |
| EU RoHS Compliance Date (mm/dd/yyyy): | 01/01/2004 |
| EU Directive 2002/96/EC (WEEE): | Yes |
| EU Directive 2003/11/EC (BFR): | Yes |
| CA Prop 65 (CJ for Wire & Cable): | Yes |
| MII Order #39 (China RoHS): | Yes |
| Telecommunications Standards: | Category 5e - TIA 568.C.2 |
| Other Specification: | ICEA 661, Cat 5e-100 Patch, UL verified to Category 5e Patch |

Applicable Patents:

| Country | Patent |
|---------|---------|
| US | 5606151 |
| US | 5734126 |
| US | 5763823 |

Flame Test

| | |
|------------------------|-------------------|
| UL Flame Test: | UL1685 UL Loading |
| CSA Flame Test: | FT1 |

Plenum/Non-Plenum

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

Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

| | |
|----------------------------|----|
| Capacitance (pF/ft) | 15 |
|----------------------------|----|

| | |
|--|----|
| Maximum Capacitance Unbalance (pF/100 m): | 66 |
|--|----|

Nominal Velocity of Propagation:

| | |
|---------------|----|
| VP (%) | 70 |
|---------------|----|

Maximum Delay:

| | |
|-------------------------|-----|
| Delay (ns/100 m) | 510 |
|-------------------------|-----|

Max. Delay Skew:

| | |
|------------------------------|----|
| Delay Skew (ns/100 m) | 25 |
|------------------------------|----|

Maximum Conductor DC Resistance:

| | |
|-------------------------------|---|
| DCR @ 20°C (Ohm/100 m) | 9 |
|-------------------------------|---|

Max. Operating Voltage - UL:

| | |
|----------------|-----------|
| Voltage | 300 V RMS |
|----------------|-----------|

Maximum DCR Unbalanced:

| | |
|---------------------------------|---|
| DCR Unbalance @ 20°C (%) | 3 |
|---------------------------------|---|

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Electrical Characteristics-Premise (Overall)

Premise Cable Electrical Table 1:

| Freq. (MHz) | Max. Attenuation (dB/100 m) | Min. NEXT (dB) | Min. PSNEXT (dB) | Min. PSACR (dB) | Min RL (dB) |
|-------------|-----------------------------|----------------|------------------|-----------------|-------------|
| 1 | 2.4 | 65.3 | 65.3 | 62.9 | 20.0 |
| 4 | 4.8 | 56.3 | 56.3 | 51.5 | 23.0 |
| 8 | 6.8 | 51.8 | 51.8 | 45.0 | 24.5 |
| 10 | 7.7 | 50.3 | 50.3 | 42.6 | 25.0 |
| 16 | 9.7 | 47.3 | 47.3 | 37.5 | 25.0 |
| 20 | 11.0 | 45.8 | 45.8 | 34.8 | 25.0 |
| 25 | 12.4 | 44.3 | 44.3 | 31.9 | 24.3 |
| 31.25 | 13.9 | 42.9 | 42.9 | 29.0 | 23.6 |
| 62.5 | 20.2 | 38.4 | 38.4 | 18.3 | 21.5 |
| 100 | 26.0 | 35.3 | 35.3 | 9.2 | 20.1 |
| 155 | 33.2 | 32.5 | 32.5 | 0 | 19.0 |
| 200 | 38.4 | 30.8 | 30.8 | | 19.0 |
| 250 | 43.7 | 29.3 | 29.3 | | 18.0 |
| 300 | 48.6 | 28.2 | 28.2 | | 18.0 |
| 310 | 49.5 | 27.9 | 27.9 | | 18.0 |
| 350 | 53.2 | 27.2 | 27.2 | | 17.0 |

Premise Cable Electrical Table 2:

| Freq. (MHz) | Input (Unfitted) Imp. (Ohms) | Fitted Impedance | Min. ELFEXT (dB) | Min. PSELFEXT (dB) |
|-------------|------------------------------|------------------|------------------|--------------------|
| 1 | 100 ± 12 | 105 ± 10 | 63.8 | 60.8 |
| 4 | 100 ± 12 | 100 ± 10 | 51.7 | 48.7 |
| 8 | 100 ± 12 | 100 ± 10 | 45.7 | 42.7 |
| 10 | 100 ± 12 | 100 ± 10 | 43.8 | 40.8 |
| 16 | 100 ± 12 | 100 ± 10 | 39.7 | 36.7 |
| 20 | 100 ± 12 | 100 ± 10 | 37.7 | 34.7 |
| 25 | 100 ± 15 | 100 ± 10 | 35.8 | 32.8 |
| 31.25 | 100 ± 15 | 100 ± 10 | 33.9 | 30.9 |
| 62.5 | 100 ± 15 | 100 ± 10 | 27.8 | 24.9 |
| 100 | 100 ± 15 | 100 ± 10 | 23.8 | 20.8 |
| 155 | 100 ± 18 | 100 ± 10 | 19.9 | 16.9 |
| 200 | 100 ± 20 | 100 ± 10 | 17.7 | 14.7 |
| 250 | 100 ± 20 | 100 ± 10 | 15.8 | 12.8 |
| 300 | 100 ± 20 | 100 ± 10 | 14.2 | 11.2 |
| 310 | 100 ± 20 | 100 ± 10 | 13.9 | 10.9 |
| 350 | 100 ± 22 | 100 ± 10 | 12.9 | 9.9 |

Notes (Overall)

Notes: Jacket sequentially marked at 2 ft. intervals. Third party verified to ANSI/TIA-568-C.2, Category 5e Patch.

Related Documents:

No related documents are available for this product

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|----------------|----------|-------------|-------------|-------|----------------------------|
| 1752A F2VU1000 | 1,000 FT | 24.000 LB | GRAY, DEC | | CAT5E+ PATCH U/UTP CM BOX |
| 1752A F2V1000 | 1,000 FT | 26.000 LB | GRAY, DEC | C | CAT5E+ PATCH U/UTP CM REEL |
| 1752A 002U1000 | 1,000 FT | 24.000 LB | RED | | CAT5E+ PATCH U/UTP CM BOX |
| 1752A 0021000 | 1,000 FT | 26.000 LB | RED | C | CAT5E+ PATCH U/UTP CM REEL |
| 1752A 003U1000 | 1,000 FT | 24.000 LB | ORANGE | | CAT5E+ PATCH U/UTP CM BOX |
| 1752A 0031000 | 1,000 FT | 26.000 LB | ORANGE | C | CAT5E+ PATCH U/UTP CM REEL |
| 1752A 004U1000 | 1,000 FT | 24.000 LB | YELLOW | | CAT5E+ PATCH U/UTP CM BOX |
| 1752A 0041000 | 1,000 FT | 26.000 LB | YELLOW | C | CAT5E+ PATCH U/UTP CM REEL |
| 1752A 005U1000 | 1,000 FT | 24.000 LB | GREEN, DARK | | CAT5E+ PATCH U/UTP CM BOX |
| 1752A 0051000 | 1,000 FT | 26.000 LB | GREEN, DARK | C | CAT5E+ PATCH U/UTP CM REEL |
| 1752A 006U1000 | 1,000 FT | 24.000 LB | BLUE, LIGHT | | CAT5E+ PATCH U/UTP CM BOX |

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| | | | | | |
|----------------|----------|-----------|-------------|---|----------------------------|
| 1752A 0061000 | 1,000 FT | 26.000 LB | BLUE, LIGHT | C | CAT5E+ PATCH U/UTP CM REEL |
| 1752A 007U1000 | 1,000 FT | 24.000 LB | VIOLET | | CAT5E+ PATCH U/UTP CM BOX |
| 1752A 0071000 | 1,000 FT | 26.000 LB | VIOLET | C | CAT5E+ PATCH U/UTP CM REEL |
| 1752A 010U1000 | 1,000 FT | 24.000 LB | BLACK | | CAT5E+ PATCH U/UTP CM BOX |
| 1752A 0101000 | 1,000 FT | 26.000 LB | BLACK | C | CAT5E+ PATCH U/UTP CM REEL |

Notes:

C = CRATE REEL PUT-UP.

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