

1592A Multi-Conductor - Category 5e Unbonded-Pair Cable



For more Information
please call

1-800-Belden1



Description:

24 AWG stranded (7x32) bare copper conductors, non-plenum, Polyolefin insulation, twisted pairs, RJ-45 compatible, see color code chart (below), PVC jacket (red, orange, yellow, green, blue, purple, light gray, white or black).

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

Physical Characteristics (Overall)

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 4 | 24 | 7x32 | BC - Bare Copper |

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 |

Overall Cabling

Overall Nominal Diameter: 0.213 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 +75°C

Bulk Cable Weight: 21 lbs/1000 ft.

Max. Recommended Pulling Tension: 25 lbs.

Min. Bend Radius (Install)/Minor Axis: 0.800 in.



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Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|---|
| NEC/(UL) Specification: | CM, UL444 |
| CEC/C(UL) Specification: | CM |
| Other Standards: | 11801 Category 5 Patch |
| 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: | 568-B.2 Category 5e Patch |
| Other Specification: | NEMA WC-63.1 Category 5e Patch, ICEA 661 Category 5 Patch, UL verified to Category 5e |

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 |
|---------------------|----|

Nominal Velocity of Propagation:

| | |
|--------|----|
| VP (%) | 69 |
|--------|----|

Maximum Capacitance Unbalance (pF/100 m): 330

Maximum Delay:

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

Typical Delay Skew:

| | |
|--------------------|-------|
| Delay Skew (ns/ft) | 0.037 |
|--------------------|-------|

Max. Delay Skew:

| | |
|-----------------------|----|
| Delay Skew (ns/100 m) | 45 |
|-----------------------|----|

Maximum Conductor DC Resistance:

| | |
|------------------------|------|
| DCR @ 20°C (Ohm/100 m) | 9.38 |
|------------------------|------|

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. ACR (dB) | Min. PSACR (dB) | Min RL (dB) | Min. SRL (dB) |
|-------------|-----------------------------|----------------|------------------|---------------|-----------------|-------------|---------------|
| 1 | 2.5 | 65.3 | 62.3 | 62.8 | 59.8 | 20.0 | 23.0 |
| 4 | 4.9 | 56.3 | 53.3 | 51.4 | 48.4 | 23.0 | 23.0 |
| 8 | 6.9 | 51.8 | 48.8 | 44.9 | 41.9 | 24.5 | 24.5 |
| 10 | 7.8 | 50.3 | 47.3 | 42.5 | 39.5 | 25.0 | 25.0 |
| 16 | 9.9 | 47.3 | 44.3 | 37.4 | 34.4 | 25.0 | 25.0 |
| 20 | 11.1 | 45.8 | 42.8 | 34.7 | 31.7 | 25.0 | 25.0 |
| 25 | 12.5 | 44.3 | 41.3 | 21.8 | 28.8 | 24.3 | 24.3 |
| 31.25 | 14.1 | 42.9 | 39.9 | 28.8 | 25.8 | 23.6 | 23.6 |
| 62.5 | 20.4 | 38.4 | 35.4 | 18.0 | 15.0 | 21.5 | 21.5 |
| 100 | 26.4 | 35.3 | 32.3 | 8.9 | 5.9 | 20.1 | 20.1 |
| 155 | 33.7 | 32.5 | 29.5 | | | 15.8 | |
| 200 | 38.9 | 30.8 | 27.8 | | | 15.0 | |

Premise Cable Electrical Table 2:

| Freq. (MHz) | Input (Unfitted) Imp. (Ohms) | Fitted Impedance | Min. ELFEXT (dB) | Min. PSELFEXT (dB) |
|-------------|------------------------------|------------------|------------------|--------------------|
| 1 | 100 ± 15 | 100 ± 15 | 63.8 | 60.8 |
| 4 | 100 ± 15 | 100 ± 15 | 51.7 | 48.7 |
| 8 | 100 ± 15 | 100 ± 15 | 45.7 | 42.7 |
| 10 | 100 ± 15 | 100 ± 15 | 43.8 | 40.8 |
| 16 | 100 ± 15 | 100 ± 15 | 39.7 | 36.7 |
| 20 | 100 ± 15 | 100 ± 15 | 37.7 | 34.7 |
| 25 | 100 ± 15 | 100 ± 15 | 35.8 | 32.8 |
| 31.25 | 100 ± 15 | 100 ± 15 | 33.9 | 30.9 |
| 62.5 | 100 ± 15 | 100 ± 15 | 27.8 | 24.8 |
| 100 | 100 ± 15 | 100 ± 15 | 23.8 | 20.8 |
| 155 | 100 ± 25 | 100 ± 15 | 19.9 | 16.9 |
| 200 | 100 ± 25 | 100 ± 15 | 17.7 | 14.7 |

Notes (Overall)

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

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|----------------|----------|-------------|-------------|-------|--------------------|
| 1592A F2VU1000 | 1,000 FT | 22.000 LB | GRAY, DEC | | 4 PR #24 PP FR PVC |
| 1592A F2V1000 | 1,000 FT | 23.000 LB | GRAY, DEC | | 4 PR #24 PP FR PVC |
| 1592A 002U1000 | 1,000 FT | 22.000 LB | RED | | 4 PR #24 PP FR PVC |
| 1592A 0021000 | 1,000 FT | 23.000 LB | RED | C | 4 PR #24 PP FR PVC |
| 1592A 003U1000 | 1,000 FT | 22.000 LB | ORANGE | | 4 PR #24 PP FR PVC |
| 1592A 0031000 | 1,000 FT | 23.000 LB | ORANGE | C | 4 PR #24 PP FR PVC |
| 1592A 004U1000 | 1,000 FT | 22.000 LB | YELLOW | | 4 PR #24 PP FR PVC |
| 1592A 0041000 | 1,000 FT | 23.000 LB | YELLOW | | 4 PR #24 PP FR PVC |
| 1592A 005U1000 | 1,000 FT | 22.000 LB | GREEN, DARK | | 4 PR #24 PP FR PVC |
| 1592A 0051000 | 1,000 FT | 23.000 LB | GREEN, DARK | C | 4 PR #24 PP FR PVC |
| 1592A 006U1000 | 1,000 FT | 22.000 LB | BLUE, LIGHT | | 4 PR #24 PP FR PVC |
| 1592A 0061000 | 1,000 FT | 23.000 LB | BLUE, LIGHT | C | 4 PR #24 PP FR PVC |
| 1592A 007U1000 | 1,000 FT | 22.000 LB | VIOLET | | 4 PR #24 PP FR PVC |
| 1592A 0071000 | 1,000 FT | 23.000 LB | VIOLET | C | 4 PR #24 PP FR PVC |
| 1592A 009U1000 | 1,000 FT | 22.000 LB | WHITE | | 4 PR #24 PP FR PVC |
| 1592A 0091000 | 1,000 FT | 23.000 LB | WHITE | C | 4 PR #24 PP FR PVC |
| 1592A 010U1000 | 1,000 FT | 22.000 LB | BLACK | | 4 PR #24 PP FR PVC |
| 1592A 0101000 | 1,000 FT | 23.000 LB | BLACK | C | 4 PR #24 PP FR PVC |

Notes:
C = CRATE REEL PUT-UP.



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Revision Number: 2 Revision Date: 09-18-2008

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