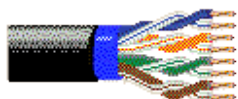


1305A Multi-Conductor - UpJacketed CatSnake®

For more Information
please call

1-800-Belden1



Description:

24 AWG Bonded-Pairs stranded (7x32) bare copper conductors, polyolefin insulation, inner and outer PVC jackets. Sequential marking at two foot intervals.

Usage (Overall)

Suitable Applications: Field Deployable Cat 5e Patch, CobraNet, eSnake, Ethersound, Digital Audio over Ethernet

Physical Characteristics (Overall)

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (in.) |
|---------|-----|-----------|--------------------|------------|
| 4 | 24 | 7x32 | BC - Bare Copper | .022 |

Insulation

Insulation Material:

| Insulation Material | Wall Thickness (in.) | Dia. (in.) |
|---------------------|----------------------|------------|
| PO - Polyolefin | .0085 | .041 |

Inner Jacket

Inner Jacket Material:

| Inner Jacket Material | Nom Wall (in.) | Nom. Dia. (in.) |
|--------------------------|----------------|-----------------|
| PVC - Polyvinyl Chloride | .0215 | .238 |

Outer Shield

Outer Shield Material:

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

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material | Nom. Wall Thickness (in.) |
|--------------------------|---------------------------|
| PVC - Polyvinyl Chloride | .0285 |

Overall Cabling

Overall Nominal Diameter: 0.295 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 +60°C

Bulk Cable Weight: 39 lbs/1000 ft.

Max. Recommended Pulling Tension: 44 lbs.

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Min. Bend Radius (Install)/Minor Axis: 3 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|---|
| Other Standards: | 11801 Category 5e Patch |
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2002/95/EC (RoHS): | Yes |
| EU RoHS Compliance Date (mm/dd/yyyy): | 02/20/2006 |
| 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 5, ICEA 661, Category 5e Patch, TIA/EI-568-B.2, Category 5e |

Suitability

| | |
|------------------------|-----|
| Suitability - Indoor: | Yes |
| Suitability - Outdoor: | Yes |

Plenum/Non-Plenum

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

Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

Capacitance (pF/ft)
15

Nominal Velocity of Propagation:

VP (%)
70

Maximum Capacitance Unbalance (pF/100 m): 66

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

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 | 2.400 | 65.3 | 65.3 | 62.9 | 20.000 |
| 4 | 4.800 | 56.3 | 56.3 | 51.5 | 23.000 |

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| | | | | | |
|-------|--------|------|------|------|--------|
| 6 | 5.900 | | | | |
| 8 | 6.800 | 51.8 | 51.8 | 45.0 | 24.500 |
| 10 | 7.700 | 50.3 | 50.3 | 42.6 | 25.000 |
| 12 | 8.400 | | | | |
| 16 | 9.700 | 47.3 | 47.3 | 37.5 | 25.000 |
| 20 | 11.000 | 45.8 | 45.8 | 34.8 | 25.000 |
| 25 | 12.400 | 44.3 | 44.3 | 31.9 | 24.300 |
| 31.25 | 13.900 | 42.9 | 42.9 | 29.0 | 23.600 |
| 62.5 | 20.200 | 38.4 | 38.4 | 18.3 | 21.500 |
| 100 | 26.000 | 35.3 | 35.3 | 9.2 | 20.100 |
| 155 | 33.200 | 32.5 | 32.5 | 0 | 19.000 |
| 200 | 38.400 | 30.8 | 30.8 | | 19.000 |
| 250 | 43.700 | 29.3 | 29.3 | | 18.000 |
| 300 | 48.600 | 28.2 | 28.2 | | 18.000 |
| 310 | 49.500 | 27.9 | 27.9 | | 18.000 |
| 350 | 53.200 | 27.2 | 27.2 | | 17.000 |

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 | 24.8 |
| 100 | 100 ± 18 | 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: US Patents 5, 606, 151; 5, 734, 126; 5, 763, 823. EtherNet/IP is a trademark of ControlNet Internation, Ltd. under license by Open DeviceNet Vendor Association, Inc. Operating temperatures are subject to length de-rating.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|--------------|-------|-----------------------|
| 1305A B591000 | 1,000 FT | 42.000 LB | BLACK, MATTE | | 4 PR #24 PP FRPVC PVC |
| 1305A B59500 | 500 FT | 23.000 LB | BLACK, MATTE | | 4 PR #24 PP FRPVC PVC |

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