

7852A Multi-Conductor - Enhanced Category 6 Bonded-Pair Cable



For more Information
please call

1-800-Belden1



Description:

23 AWG Bonded-Pairs, Solid Bare Copper Conductors, Plenum, FEP Teflon® Insulation, Patented e-Spline Center Member, Rip Cord, Flam arrest® Jacket

Usage (Overall)

Suitable Applications: Premise Horizontal Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU Digital Audio, AES51, RS-422, Noisy Environments

Physical Characteristics (Overall)

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 4 | 23 | Solid | BC - Bare Copper |

Total Number of Conductors: 8

Insulation

Insulation Material:

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

Outer Shield

Outer Shield Material:

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

Outer Jacket

Outer Jacket Material:

| Outer Jacket Trade Name | Outer Jacket Material |
|-------------------------|---------------------------------------|
| Flam arrest® | LS PVC - Low Smoke Polyvinyl Chloride |

Outer Jacket Diameter:

| Nom. Dia. (mm) |
|----------------|
| 5.537 |
| 7.366 |

Outer Jacket Ripcord: Yes

Overall Cable

Overall Cabling Separator Material: Patented E-Spline Center Member

Overall Nominal Diameter: 5.537 x 7.366 mm

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)

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| | |
|-----------------------------------|----------------|
| Storage Temperature Range: | -20°C To +75°C |
| Installation Temperature Range: | +5°C To +50°C |
| Operating Temperature Range: | 0°C To +75°C |
| Bulk Cable Weight: | 55.063 Kg/Km |
| Max. Recommended Pulling Tension: | 200.169 N |
| Min. Bend Radius/Minor Axis: | 50.800 mm |
| Min. Bend/Installation: | 55.880 mm |

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|---------------------------|
| NEC/(UL) Specification: | CMP |
| NEC Articles: | 800 |
| CEC/C(UL) Specification: | CMP |
| 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): | 07/01/2006 |
| 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: | Category 6 - TIA 568.C.2 |
| Other Specification: | UL Verified to Category 6 |

Applicable Patents:

| Country | Patent |
|---------|---------|
| US | 5606151 |
| US | 5734126 |
| US | 6064503 |
| US | 6885889 |
| US | 7663061 |
| US | 7838773 |
| US | 7977575 |

Flame Test

| | |
|-------------------|---|
| UL Flame Test: | NFPA 262 Plenum Flame Test (UL910)(FT6) |
| C(UL) Flame Test: | FT6 |
| CSA Flame Test: | FT6 |

Plenum/Non-Plenum

| | |
|--------------------|-------|
| Plenum (Y/N): | Yes |
| Non-Plenum Number: | 7851A |

Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

| | |
|--------------------|---------|
| Capacitance (pF/m) | 50.8555 |
|--------------------|---------|

| | |
|---|----|
| Maximum Capacitance Unbalance (pF/100 m): | 90 |
|---|----|

Nominal Velocity of Propagation:

| | |
|--------|----|
| VP (%) | 67 |
|--------|----|

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Maximum Delay:

| |
|------------------|
| Delay (ns/100 m) |
| 538 @ 100MHz |

Max. Delay Skew:

| |
|-----------------------|
| Delay Skew (ns/100 m) |
| 38 |

Maximum Conductor DC Resistance:

| |
|------------------------|
| DCR @ 20°C (Ohm/100 m) |
| 8.2 |

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. ACR (dB) | Min. PSACR (dB) | Min RL (dB) | Min. SRL (dB) |
|-------------|-----------------------------|----------------|------------------|---------------|-----------------|-------------|---------------|
| 1 | 1.900 | 82.3 | 80.3 | 80.5 | 78.5 | 20.000 | 27.0 |
| 4 | 3.600 | 73.3 | 71.3 | 69.7 | 67.7 | 23.000 | 27.0 |
| 8 | 5.100 | 68.8 | 66.8 | 63.7 | 61.7 | 24.500 | 27.0 |
| 10 | 5.700 | 67.3 | 65.3 | 61.6 | 59.6 | 25.000 | 27.0 |
| 16 | 7.200 | 64.3 | 62.3 | 57.0 | 55.0 | 25.000 | 27.0 |
| 20 | 8.100 | 62.8 | 60.8 | 54.7 | 52.7 | 25.000 | 27.0 |
| 25 | 9.100 | 61.3 | 59.3 | 52.3 | 50.3 | 25.000 | 26.0 |
| 31.25 | 10.200 | 59.9 | 57.9 | 49.7 | 47.7 | 25.000 | 25.1 |
| 62.5 | 14.700 | 55.4 | 53.4 | 40.7 | 38.7 | 25.000 | 22.1 |
| 100 | 18.900 | 52.3 | 50.3 | 33.4 | 31.4 | 25.000 | 20.0 |
| 155 | 23.900 | 49.5 | 47.5 | 25.5 | 23.5 | 22.800 | 18.1 |
| 200 | 27.500 | 47.8 | 45.8 | 20.3 | 18.3 | 21.600 | 17.0 |
| 250 | 31.200 | 46.3 | 44.3 | 15.2 | 13.2 | 20.500 | 16.2 |
| 300 | 34.500 | 43.2 | 41.2 | 10.6 | 8.6 | 20.200 | 15.2 |
| 310 | 35.200 | 42.9 | 40.9 | 9.8 | 7.8 | 20.100 | 15.1 |
| 350 | 37.700 | 42.2 | 40.2 | 6.5 | 4.5 | 19.800 | 14.6 |
| 400 | 40.600 | 41.3 | 39.3 | 2.6 | 0.6 | 19.500 | 14.0 |
| 450 | 43.500 | 40.5 | 38.5 | 2.1 | 0.10 | 18.900 | 13.5 |
| 460 | 44.000 | 40.4 | 38.4 | 0 | 0 | 18.800 | 13.4 |
| 500 | 46.200 | 39.8 | 37.8 | | | 18.400 | 13.0 |
| 550 | 48.800 | 39.2 | 37.2 | | | 18.000 | 12.6 |
| 600 | 51.400 | 38.6 | 36.6 | | | 17.600 | 12.2 |

Premise Cable Electrical Table 2:

| Freq. (MHz) | Input (Unfitted) Imp. (Ohms) | Fitted Impedance | Min. ELFEXT (dB) | Min. PSELFEXT (dB) |
|-------------|------------------------------|------------------|------------------|--------------------|
| 1 | 100 ± 12 | 100 ± 15 | 73.8 | 70.8 |
| 4 | 100 ± 12 | 100 ± 10.4 | 61.8 | 58.8 |
| 8 | 100 ± 12 | 100 ± 8 | 55.7 | 52.7 |
| 10 | 100 ± 12 | 100 ± 7.3 | 53.8 | 50.8 |
| 16 | 100 ± 12 | 100 ± 5.7 | 49.7 | 46.7 |
| 20 | 100 ± 12 | 100 ± 5 | 47.8 | 44.8 |
| 25 | 100 ± 15 | 100 ± 5 | 45.8 | 42.8 |
| 31.25 | 100 ± 15 | 100 ± 5 | 43.9 | 40.9 |
| 62.5 | 100 ± 15 | 100 ± 5 | 37.9 | 34.9 |
| 100 | 100 ± 15 | 100 ± 5 | 33.8 | 30.8 |
| 155 | 100 ± 15 | 100 ± 5 | 30.0 | 27.0 |
| 200 | 100 ± 15 | 100 ± 5 | 27.8 | 24.8 |
| 250 | 100 ± 20 | 100 ± 5 | 25.8 | 22.8 |
| 300 | 100 ± 20 | 100 ± 5 | 24.3 | 21.3 |

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| | | | | |
|-----|----------|---------|------|------|
| 310 | 100 ± 20 | 100 ± 5 | 24.0 | 21.0 |
| 350 | 100 ± 22 | 100 ± 5 | 22.9 | 19.9 |
| 400 | 100 ± 22 | 100 ± 5 | 21.8 | 18.8 |
| 450 | 100 ± 22 | 100 ± 5 | 20.7 | 17.7 |
| 460 | 100 ± 22 | 100 ± 5 | 20.5 | 17.5 |
| 500 | 100 ± 22 | 100 ± 5 | 19.8 | 16.8 |
| 550 | 100 ± 22 | 100 ± 5 | 19.0 | 16.0 |
| 600 | 100 ± 22 | 100 ± 5 | 18.2 | 15.2 |

Notes (Overall)

Notes: Belden IBDN. Jacket sequentially marked at 2 ft./1m intervals. Third party verified to ANSI/TIA-568-C.2, Category 6.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|----------------|--------|-------------|-------------|-------|----------------------------|
| 7852A D15A1000 | 305 MT | 19.505 KG | BLUE | | CAT6E+ 4PRB U/UTP CMP RIB |
| 7852A D151000 | 305 MT | 18.144 KG | BLUE | C | CAT6E+ 4PRB U/UTP CMP REEL |
| 7852A 0021000 | 305 MT | 18.144 KG | RED | | CAT6E+ 4PRB U/UTP CMP REEL |
| 7852A 004A1000 | 305 MT | 19.505 KG | YELLOW | | CAT6E+ 4PRB U/UTP CMP RIB |
| 7852A 0041000 | 305 MT | 18.144 KG | YELLOW | C | CAT6E+ 4PRB U/UTP CMP REEL |
| 7852A 005A1000 | 305 MT | 19.505 KG | GREEN, DARK | | CAT6E+ 4PRB U/UTP CMP RIB |
| 7852A 0051000 | 305 MT | 18.144 KG | GREEN, DARK | C | CAT6E+ 4PRB U/UTP CMP REEL |
| 7852A 008A1000 | 305 MT | 19.505 KG | GRAY | | CAT6E+ 4PRB U/UTP CMP RIB |
| 7852A 0081000 | 305 MT | 18.144 KG | GRAY | | CAT6E+ 4PRB U/UTP CMP REEL |
| 7852A 009A1000 | 305 MT | 19.505 KG | WHITE | | CAT6E+ 4PRB U/UTP CMP RIB |
| 7852A 0091000 | 305 MT | 18.144 KG | WHITE | C | CAT6E+ 4PRB U/UTP CMP REEL |
| 7852A 0101000 | 305 MT | 18.144 KG | BLACK | | CAT6E+ 4PRB U/UTP CMP REEL |

Notes:

C = CRATE REEL PUT-UP.

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