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1-800-BELDEN1

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1-800-Belden1



General Description:

CAT6 (250MHz), 4-Pair, U/UTP-Unshielded, Riser-CMR, Premise Horizontal Cable, 24 AWG solid bare copper conductors, polyolefin insulation, tape separator, Ripcord, PVC jacket

Usage (Overall)

Suitable Applications: Premise Horizontal Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM

Physical Characteristics (Overall)

Conductor

AWG:

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

Total Number of Conductors: 8

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.) |
|-----------------|
| 0.221 |

Outer Jacket Ripcord: Yes

Overall Cable

Overall Cabling Fillers: Center Tape

Pair

Pair Color Code Chart:

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

Mechanical Characteristics (Overall)

Bulk Cable Weight: 23 lbs/1000 ft.

Max. Recommended Pulling Tension: 40 lbs.

Min. Bend Radius/Minor Axis: 1 in.

Min. Bend/Installation: 2.200 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

CEC/C(UL) Specification: CMR

EU Directive 2011/65/EU (ROHS II): Yes

EU CE Mark: Yes

EU Directive 2000/53/EC (ELV): Yes

Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

7881A Multi-Conductor - Replaced by 2412

| | |
|---------------------------------------|------------------------------------|
| 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 |
| Other Specification: | Third party verified to Category 6 |

Flame Test

| | |
|-----------------|--------------|
| UL Flame Test: | UL1666 Riser |
| CSA Flame Test: | FT4 |

Plenum/Non-Plenum

| | |
|----------------|-------|
| Plenum Number: | 7882A |
|----------------|-------|

Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

Capacitance (pF/ft)
15

Maximum Capacitance Unbalance (pF/100 m): 330

Nominal Velocity of Propagation:

VP (%)
70

Maximum Delay:

Delay (ns/100 m)
537 @ 100MHz

Max. Delay Skew:

Delay Skew (ns/100 m)
45

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 (%)
5

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 | 2.000 | 74.3 | 72.3 | 72.3 | 70.3 | 20.000 | na |
| 4 | 3.800 | 65.3 | 63.3 | 61.5 | 59.5 | 23.000 | na |
| 8 | 5.300 | 60.8 | 58.8 | 55.4 | 53.4 | 24.500 | na |
| 10 | 6.000 | 59.3 | 57.3 | 53.3 | 51.3 | 25.000 | na |
| 16 | 7.600 | 56.2 | 54.3 | 48.7 | 46.7 | 25.000 | na |
| 20 | 8.500 | 54.8 | 52.8 | 46.3 | 44.3 | 25.000 | na |
| 25 | 9.500 | 53.3 | 51.3 | 43.8 | 41.8 | 24.300 | na |
| 31.25 | 10.700 | 51.9 | 49.9 | 41.2 | 39.2 | 23.600 | na |
| 62.5 | 15.400 | 47.4 | 45.4 | 32.0 | 30.0 | 21.500 | na |
| 100 | 19.800 | 44.3 | 42.3 | 24.5 | 22.5 | 20.100 | na |
| 155 | 25.200 | 41.5 | 39.5 | 16.3 | 14.3 | 18.800 | na |
| 200 | 29.000 | 39.8 | 37.8 | 10.8 | 8.8 | 18.000 | na |
| 250 | 32.800 | 38.3 | 36.3 | 5.5 | 3.5 | 17.300 | na |
| 300 | 36.400 | 37.1 | 35.1 | 0.7 | | 16.800 | na |
| 350 | 39.800 | 36.1 | 34.1 | | | 16.300 | na |
| 400 | 43.000 | 35.3 | 33.3 | | | 15.900 | na |
| 500 | 48.900 | 33.8 | 31.8 | | | 15.200 | na |
| 550 | 51.800 | 33.2 | 31.2 | | | 14.900 | na |

Premise Cable Electrical Table 2:

Freq. (MHz) Input (Unfitted) Imp. (Ohms) Fitted Impedance Min. ELFEXT (dB) Min. PSELFEXT (dB)

Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

7881A Multi-Conductor - Replaced by 2412

| | | | | |
|-------|----------|----------|------|------|
| 1 | 100 ± 15 | 100 ± 15 | 67.8 | 64.8 |
| 4 | 100 ± 15 | 100 ± 15 | 55.8 | 52.7 |
| 8 | 100 ± 15 | 100 ± 15 | 49.7 | 46.7 |
| 10 | 100 ± 15 | 100 ± 15 | 47.8 | 44.8 |
| 16 | 100 ± 15 | 100 ± 15 | 43.7 | 40.7 |
| 20 | 100 ± 15 | 100 ± 15 | 41.8 | 38.8 |
| 25 | 100 ± 15 | 100 ± 15 | 39.8 | 36.8 |
| 31.25 | 100 ± 15 | 100 ± 15 | 37.9 | 34.9 |
| 62.5 | 100 ± 15 | 100 ± 15 | 31.9 | 28.9 |
| 100 | 100 ± 15 | 100 ± 15 | 27.8 | 24.8 |
| 155 | 100 ± 20 | 100 ± 15 | 23.9 | 20.9 |
| 200 | 100 ± 20 | 100 ± 15 | 21.8 | 18.8 |
| 250 | 100 ± 20 | 100 ± 15 | 19.8 | 16.8 |
| 300 | 100 ± 25 | 100 ± 15 | 18.3 | 15.3 |
| 350 | 100 ± 25 | 100 ± 15 | 16.9 | 13.9 |
| 400 | 100 ± 25 | 100 ± 15 | 15.8 | 12.8 |
| 500 | 100 ± 25 | 100 ± 15 | 13.8 | 10.8 |
| 550 | 100 ± 25 | 100 ± 15 | | |

Notes (Overall)

Notes: Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2-1, Category 6. US Patents 5424491, 6570095, 6998537.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------|-------|-------------|-------|-------|-----------|
|--------|-------|-------------|-------|-------|-----------|

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