ENGLISH MEASUREMENT VERSION



7930A Multi-Conductor - Category 5e DataTuff® Twisted Pair Cable



For more Information please call

1-800-Belden1



Description:

24 AWG stranded (7x32) bare copper conductors, twisted pairs, polyolefin insulation, industrial grade sunlight- and oil-resistant PVC jacket. Sequential marking at two foot intervals.

Usage (Overall)

Suitable Applications:

Industrial Ethernet, Harsh Environments, Flexible Applications, 200MHz Category 5e, Industrial Patch Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU, Digital Video, RS-422, CMX - Outdoor, RJ-45 Compatible

Physical Characteristics (Overall)

Conductor

AWG:

| # Pairs AW0 | | Stranding | Conductor Material | | | |
|-------------|----|-----------|--------------------|--|--|--|
| 4 | 24 | 7x32 | BC - Bare Copper | | | |

Insulation

Insulation Material:

Insulation MaterialPO - Polyolefin

Outer Shield

Outer Shield Material:

Outer Shield Material Unshielded

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material | Nom. Wall Thickness (in.) |
|---|---------------------------|
| Industrial Grade PVC - Polyvinyl Chloride | .030 |

Overall Cabling

Overall Nominal Diameter: 0.240 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) | | | | | |
|--------------------------------------|--|-----------------|--|--|--|
| | Installation Temperature Range: | -10°C To +75°C | | | |
| | Operating Temperature Range: | -25°C To +75°C | | | |
| | Bulk Cable Weight: | 26 lbs/1000 ft. | | | |
| | Max. Recommended Pulling Tension: | 25 lbs. | | | |
| | Min. Bend Radius (Install)/Minor Axis: | 0.960 in. | | | |

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| Applicable Standards & Environmental Programs | | | | | | | |
|---|---|--|--|--|--|--|--|
| NEC/(UL) Specification: | CMR, CMX-Outdoor, UL444 | | | | | | |
| CEC/C(UL) Specification: | CMR | | | | | | |
| 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): | 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 568-B.2 Category 5e Patch | | | | | | |
| Telecommunications Standards: | | | | | | | |
| Other Specification: | NEMA WC-63.1 Category 5e Patch, ICEA 661 Category 5 Patch, UL verified to Category 5e | | | | | | |
| ame Test | | | | | | | |
| UL Flame Test: | UL1666 Riser | | | | | | |
| CSA Flame Test: | FT4 | | | | | | |
| uitability | | | | | | | |
| Suitability - Indoor: | Yes | | | | | | |
| Suitability - Outdoor: | Yes | | | | | | |
| Sunlight Resistance: | Yes | | | | | | |
| Oil Resistance: | Yes | | | | | | |
| enum/Non-Plenum | | | | | | | |
| Plenum (Y/N): | No | | | | | | |

330

Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

Capacitance (pF/ft)
15

Maximum Capacitance Unbalance (pF/100 m):

Nominal Velocity of Propagation:

VP (%)

Maximum Delay:

Delay (ns/100 m) 510 @ 100MHz

Typical Delay Skew:

Delay Skew (ns/ft) 12

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:

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Voltage 300 V RMS

Maximum DCR Unbalanced:

DCR Unbalance @ 20°C (%)

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: Operating temperatures are subject to length de-rating. Cable passes -25C Cold Bend per UL 1581.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|-------|-------|-----------------|
| 7930A 0101000 | 1,000 FT | 29.000 LB | BLACK | С | 4 PR #24 PP PVC |
| 7930A 0102000 | 2,000 FT | 56.000 LB | BLACK | С | 4 PR #24 PP PVC |

Notes:

C = CRATE REEL PUT-UP.

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