

ENGLISH MEASUREMENT VERSION

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



For more Information please call

1-800-Belden1



General 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.

| 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 |
| hysical Characteristics (Overall) | |
| Conductor AWG: | |
| # PairsAWGStrandingConductor Material4247x32BC - Bare Copper | |
| Total Number of Conductors: | 8 |
| sulation Insulation Material: | |
| Insulation Material | |
| PO - Polyolefin | |
| Duter Shield | |
| Outer Shield Material Outer Shield Material | |
| Unshielded | |
| Duter Jacket | |
| Outer Jacket Material: | |
| Outer Jacket Material Nom. Wall Thicknes | is (in.) |
| Industrial Grade PVC - Polyvinyl Chloride .030 | |
| overall Cable | |
| Overall Nominal Diameter: | 0.240 in. |
| lair | |
| 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 | |
| echanical 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/Minor Axis: | 0.960 in. |
| | e (Overall) |
| oblicable Specifications and Adency Compliance | |
| pplicable Specifications and Agency Compliance pplicable Standards & Environmental Programs | |
| | CMR, CMX-Outdoor, UL444 |
| pplicable Standards & Environmental Programs | CMR, CMX-Outdoor, UL444 CMR |
| pplicable Standards & Environmental Programs NEC/(UL) Specification: | |
| pplicable Standards & Environmental Programs NEC/(UL) Specification: CEC/C(UL) Specification: | CMR |

Detailed Specifications & Technical Data



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| EU Rol | IS Compliance Date (mm/dd/yy | ууу): | 01/01 | /2004 | | | | | |
|--|--|---|---|---|---|--|--|--------------------|--|
| EU Dire | ective 2002/96/EC (WEEE): | | Yes | | | | | | |
| EU Dire | active 2003/11/EC (BFR): | | Yes | | | | | | |
| | p 65 (CJ for Wire & Cable): | | Yes | | | | | | |
| | | | | | | | | | |
| | ler #39 (China RoHS): | | Yes | | | | | | |
| | Specification: | | NEMA | A WC-63.1 Cate | gory 5e Patch, IG | CEA 661 Catego | ry 5 Patch, UL verifi | ied to Category 5e | |
| lame Tes | | | | | | | | | |
| UL Flar | ne Test: | | UL16 | 66 Riser | | | | | |
| CSA FI | ame Test: | | FT4 | | | | | | |
| IEEE FI | ame Test: | | 1202 | | | | | | |
| uitability | | | | | | | | | |
| Suitabi | lity - Indoor: | | Yes | | | | | | |
| Suitabi | lity - Outdoor: | | Yes | | | | | | |
| Sunligh | nt Resistance: | | Yes | | | | | | |
| Oil Res | istance: | | Yes | | | | | | |
| | on-Plenum | | | | | | | | |
| Plenum | | | No | | | | | | |
| | | | | | | | | | |
| | Characteristics (Overa | II) | | | | | | | |
| | I Capacitance: | | | | | | | | |
| 15 | nce (pF/ft) | | | | | | | | |
| | | | | | | | | | |
| | um Capacitance Unbalance (pF ocity of Propagation: | 7/100 m): | 330 | | | | | | |
| 12 lax. Delay S Delay Sk 45 laximum C DCR @ 2 9.38 | 00MHz ny Skew: ew (ns/ft) | | | | | | | | |
| Voltage 300 V RM | CR Unbalanced: | | | | | | | | |
| Voltage 300 V RM | | | | | | | | | |
| Voltage 300 V RM laximum D DCR Unb 3 | CR Unbalanced: palance @ 20°C (%) | | | | | | | | |
| Voltage 300 V RM laximum D DCR Unt 3 ectrical | CR Unbalanced: palance @ 20°C (%) Characteristics-Premis | se (Overall) | | | | | | | |
| Voltage 300 V RM laximum D DCR Unk 3 ectrical remise Cal | CR Unbalanced: palance @ 20°C (%) | | 3) Min. PSNEXT (df | 3) Min. ACR (d | B) Min. PSACR | (dB) Min RL (dl | B) Min. SRL (dB) | | |
| Voltage 300 V RM laximum D DCR Unk 3 ectrical remise Cal | CR Unbalanced: palance @ 20°C (%) Characteristics-Premis ple Electrical Table 1: | | B) Min. PSNEXT (db 62.3 | B) Min. ACR (d) 62.8 | B) Min. PSACR 59.8 | (dB) Min RL (d | B) Min. SRL (dB) 23.0 | | |
| Voltage 300 V RM Jaximum D DCR Unb 3 ectrical remise Cal Freq. (MH 1 4 | CR Unbalanced: palance @ 20°C (%) Characteristics-Premis ole Electrical Table 1: Hz) Max. Attenuation (dB/100 r 2.5 4.9 | n) Min. NEXT (db 65.3 56.3 | 62.3 53.3 | 62.8 51.4 | 59.8 48.4 | 20.0 23.0 | 23.0 23.0 | | |
| Voltage 300 V RM laximum D DCR Unt 3 ectrical remise Cat Freq. (MH 1 4 8 | CR Unbalanced: palance @ 20°C (%) Characteristics-Premis ole Electrical Table 1: 12) Max. Attenuation (dB/100 r 2.5 4.9 6.9 | m) Min. NEXT (db 65.3 56.3 51.8 | 62.3 53.3 48.8 | 62.8 51.4 44.9 | 59.8 48.4 41.9 | 20.0 23.0 24.5 | 23.0 23.0 24.5 | | |
| Voltage 300 V RM laximum D DCR Unit 3 ectrical remise Cat Freq. (MH 1 4 8 10 | CR Unbalanced: palance @ 20°C (%) Characteristics-Premis ble Electrical Table 1: 12) Max. Attenuation (dB/100 r 2.5 4.9 6.9 7.8 | Min. NEXT (db) 65.3 56.3 51.8 50.3 | 62.3 53.3 48.8 47.3 | 62.8 51.4 44.9 42.5 | 59.8 48.4 41.9 39.5 | 20.0 23.0 24.5 25.0 | 23.0 23.0 24.5 25.0 | | |
| Voltage 300 V RM laximum D DCR Unt 3 ectrical remise Cal Freq. (MH 1 4 8 10 16 | CR Unbalanced: palance @ 20°C (%) Characteristics-Premise ble Electrical Table 1: 12) Max. Attenuation (dB/100 r 2.5 4.9 6.9 7.8 9.9 | Min. NEXT (db 65.3 56.3 51.8 50.3 47.3 | 62.3 53.3 48.8 47.3 44.3 | 62.8 51.4 44.9 42.5 37.4 | 59.8 48.4 41.9 39.5 34.4 | 20.0 23.0 24.5 25.0 25.0 | 23.0 23.0 24.5 25.0 25.0 | | |
| Voltage 300 V RM laximum D DCR Unit 3 ectrical remise Cat Freq. (MH 1 4 8 10 | CR Unbalanced: palance @ 20°C (%) Characteristics-Premis ble Electrical Table 1: 12) Max. Attenuation (dB/100 r 2.5 4.9 6.9 7.8 | Min. NEXT (db) 65.3 56.3 51.8 50.3 | 62.3 53.3 48.8 47.3 | 62.8 51.4 44.9 42.5 | 59.8 48.4 41.9 39.5 | 20.0 23.0 24.5 25.0 | 23.0 23.0 24.5 25.0 | | |
| Voltage 300 V RM laximum D DCR Unt 3 ectrical remise Cal Freq. (MH 1 4 8 10 16 20 | CR Unbalanced: palance @ 20°C (%) Characteristics-Premis ole Electrical Table 1: 12) Max. Attenuation (dB/100 r 2.5 4.9 6.9 7.8 9.9 11.1 | Min. NEXT (db 65.3 56.3 51.8 50.3 47.3 45.8 | 62.3 53.3 48.8 47.3 44.3 42.8 | 62.8 51.4 44.9 42.5 37.4 34.7 | 59.8 48.4 41.9 39.5 34.4 31.7 | 20.0 23.0 24.5 25.0 25.0 25.0 | 23.0 23.0 24.5 25.0 25.0 25.0 25.0 | | |
| Voltage 300 V RM laximum D DCR Unt 3 ectrical remise Cal Freq. (MH 1 4 8 10 16 20 25 | CR Unbalanced: palance @ 20°C (%) Characteristics-Premis ole Electrical Table 1: 12) Max. Attenuation (dB/100 r 2.5 4.9 6.9 7.8 9.9 11.1 12.5 | Min. NEXT (dl 65.3 56.3 51.8 50.3 47.3 45.8 44.3 | 62.3 53.3 48.8 47.3 44.3 42.8 41.3 | 62.8 51.4 44.9 42.5 37.4 34.7 21.8 | 59.8 48.4 41.9 39.5 34.4 31.7 28.8 | 20.0 23.0 24.5 25.0 25.0 25.0 24.3 | 23.0 23.0 24.5 25.0 25.0 25.0 25.0 24.3 | | |
| Voltage 300 V RM aximum D DCR Unt 3 ectrical remise Cal Freq. (MH 1 4 8 10 16 20 25 31.25 | CR Unbalanced: balance @ 20°C (%) Characteristics-Premis ble Electrical Table 1: 42) Max. Attenuation (dB/100 r 2.5 4.9 6.9 7.8 9.9 11.1 12.5 14.1 | Min. NEXT (dl 65.3 56.3 51.8 50.3 47.3 45.8 44.3 42.9 | 62.3 53.3 48.8 47.3 44.3 42.8 41.3 39.9 | 62.8 51.4 44.9 42.5 37.4 34.7 21.8 28.8 | 59.8 48.4 41.9 39.5 34.4 31.7 28.8 25.8 | 20.0 23.0 24.5 25.0 25.0 25.0 24.3 23.6 | 23.0 23.0 24.5 25.0 25.0 25.0 24.3 23.6 | | |

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| 200 | 38.9 | 30.8 | 27.8 | | | 15.0 | Τ |
|-------------|------------------------------|------------------|--------------------|--------------|--------|------|---|
| mise Cable | Electrical Table 2: | | | | | | |
| Freq. (MHz) | Input (Unfitted) Imp. (Ohms) | Fitted Impedance | e Min. ELFEXT (dB) | Min. PSELFEX | T (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.

| Notes (Cont'd.): | T568A Plug Compatible Part Number: R301603 T568B Plug Compatible Part Number: R301604 |
|------------------|---|

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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