

10/10/01 Rev. 6

DATATWIST® SIX Patch- 7883A

- I. Description Plenum:
4 pair UTP (unshielded twisted pair) cable, 24 AWG solid bare copper, polyolefin insulated singles, central slit film filler, flexible PVC jacket. Jacket is sequentially marked at two-foot intervals.
- II. Applications:
Supports applications intended for Category 6 type of cables such as 10BaseT, 100BaseT, 155 ATM, and Gigabit Ethernet (1000BaseT). RJ-45 compatible for either T568A or T568B configurations.
- III. Physical Characteristics:
 Temperature Range: -20 to 75°C
 Insulation Material: Polyolefin
 Jacket Material: PVC
 Max. Pulling Tension: 40 lbs.
 Min. Conductor OD: 0.020"
 Min. Insulation OD: 0.034"
 Nom. Weight/1000 ft.: 27.5 lbs.
 Min. Bend Radius: 0.5"
 Nom. Diameter: 0.205"
 Applicable Specifications: TIA/EIA Category 6 Draft 9A
 Flame Rating and Test: UL Type CM, UL 1581 Vertical Tray
 C(UL) Type CM, CSA FT1
- IV. Color Code:
 Pair #1: White/Blue & Blue
 Pair #2: White/Orange & Orange
 Pair #3: White/Green & Green
 Pair #4: White/Brown & Brown
- V. Electrical Characteristics:
 Max. Operating Voltage: 300 V RMS
 Nom. Capacitance @ 1 kHz: 15 pF/ft
 Nom. Velocity of Propagation: 70%

| | Delay Skew (ns/100 m) | Delay @ 100 MHz (ns/100 m) | Capacitance Unbalance (pF/100 m) | DCR @ 20°C (Ohms/100 m) | DCR Unbalance (%) |
|---------|-----------------------|----------------------------|----------------------------------|-------------------------|-------------------|
| Maximum | 45 | 537 | 330 | 9.38 | 5.0 |

| Frequency (MHz) | Impedance Spec. | Min. RL (dB) | Max. Atten. (dB/100 m) | Min. PSNEXT (dB) | Min. PSELFEXT (dB/100 m) |
|-----------------|-----------------|--------------|------------------------|------------------|--------------------------|
| 1.0 | 100+/-15% | 20.0 | 2.4 | 72.3 | 64.8 |
| 4.0 | 100+/-15% | 23.0 | 4.5 | 63.3 | 52.7 |
| 8.0 | 100+/-15% | 24.5 | 6.4 | 58.8 | 46.7 |
| 10.0 | 100+/-15% | 25.0 | 7.1 | 57.3 | 44.8 |
| 16.0 | 100+/-15% | 25.0 | 9.1 | 54.3 | 40.7 |
| 20.0 | 100+/-15% | 25.0 | 10.2 | 52.8 | 38.7 |
| 25.0 | 100+/-15% | 24.3 | 11.4 | 51.4 | 36.8 |
| 31.25 | 100+/-15% | 23.6 | 12.9 | 49.9 | 34.9 |
| 62.5 | 100+/-15% | 21.5 | 18.5 | 45.4 | 28.8 |
| 100 | 100+/-15% | 20.1 | 23.8 | 42.3 | 24.8 |
| 155 | 100+/-22% | 18.8 | 30.2 | 39.5 | 20.9 |
| 200 | 100+/-22% | 18.0 | 34.8 | 37.8 | 18.7 |
| 250 | 100+/-32% | 17.3 | 39.4 | 36.3 | -- |

The data in the above tables represents discrete frequency points. All tests are sweep tested out to 250 MHz.

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