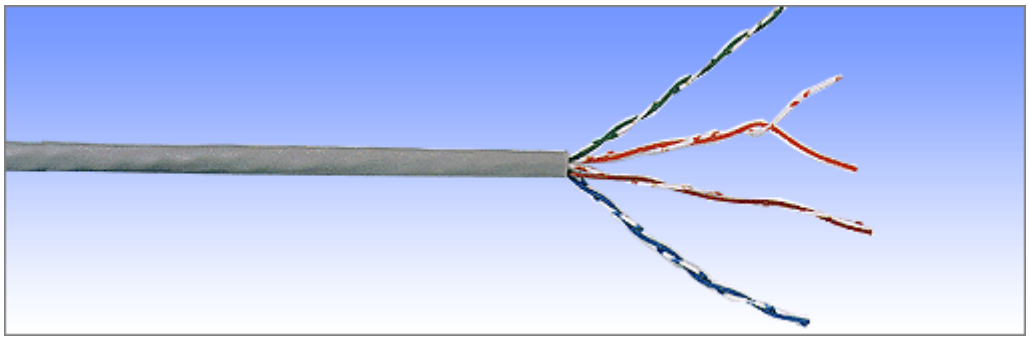
Giga UTP Patch Cable

Features



- Very high density, supports up to 24 duplex LC adapters (48 fibers), MT-RJ adapters (48 fibers) and simplex SC adapters (24 fibers) in 1U of rack space
- 100 ohm, flexible, UTP patch cable
- Four twisted pairs, stranded bare copper wires, 24 AWG
- High performance, designed for ATM 622 Mbps and Gigabit Ethernet 1,000 Mbps applications
- Specified up to 125 MHz
- Conforms to ANSI/TIA/EIA-568-B.2, ISO/IEC 11801 2nd edition (2002) and CENELEC EN50173 (2002) for Category 5e/Class D.

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Description

The Giga UTP Patch Cable is a 100 ohm cable, with a PVC jacket and four twisted pairs for indoor installations. The cable conforms to ANSI/TIA/EIA-568-B.2, ISO/IEC 11801 2nd edition (2002) and CENELEC EN50173 (2002) for Category 5e/Class D. applications, and is designed for high-speed protocols such as ATM 622 Mbps Gigabit Ethernet 1000 Mbps.

Giga UTP Patch Cable

Specifications

Construction

- **Basic Wires**
  Conductor: eight wires, stranded bare copper, 7 x 0.20 mm (24 AWG)
  Insulation: solid polyolefin, 0.97±0.02 mm diameter
- **Pair Construction**
  Four pairs cabled together
- **Pair Color Codes (2 wires/pair)**
  Blue/white-blue, orange/white-orange, green/white-green, brown/white-brown
- **Overall Diameter**
  5.3 mm nominal, 5.5 mm max.
- **Outer Sheath**
  Soft PVC compound, colored light-gray RAL 7035, with black printing
- **Printing**
  RiT R3208000 GIGA UTP PATCH CABLE 100 OHM ENHANCED CATEGORY 5 4x2x24 AWG UTP [ ] METER [+Batch No.]

Electrical

- **DC Resistance**
  Max. 93.8 Ω/km max. at 20°C
- **Resistance Unbalance**
  3% max. at 20°C
- **Mutual Capacitance**
  50±4 pF/m nominal at 1 KHz
- **Capacitance Unbalance**
  3300 pF/km max. at 1 KHz (wire to ground)
- **Impedance**
  100±15 Ω at 1 to 100 MHz

Giga UTP Patch Cable

Specifications

- **Voltage Rating**
  60 Vrms
- **Dielectric Strength**
  1700 VAC/one minute
- **Velocity of Propagation**
  68% nominal
- **Propagation Delay**
  5.2 nS/m max @ 1 MHz
  5.1 nS/m max @ 10 MHz
  5.1 nS/m max @ 100 MHz
- **Propagation Delay Skew**
  18 nS/100 m max @ 1-250 MHz

Transmission Parameters

Frequency MHz	Attenuation dB/100m	Power Sum NEXT dB	Near End Crosstalk (NEXT) Loss dB	Structural Return Loss (SRL)
1	2.1	67	67	25
4	4.8	65	65	25
10	7.9	58	58	25
16	10.5	54	54	25
31.25	15.5	46	46	25
62.5	22.5	42	42	25
100	30	38	38	23
200	44.5	35	35	23
250	50.5	33	33	23

General

Operating Temperature	0 - 40°C (32 - 104°F)
Flammability Test	IEC 332-1 / UL 1581 VW-1
Weight	33 kg/km, nominal