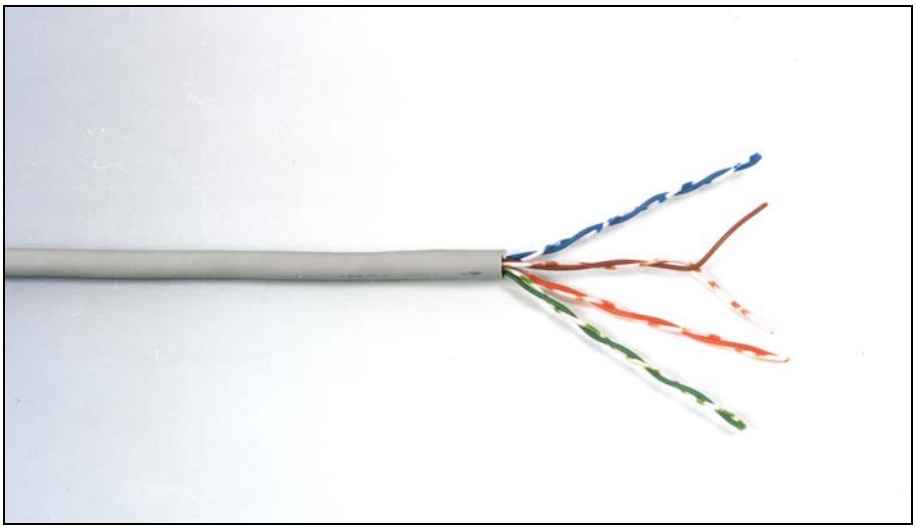
Giga UTP Horizontal Cable

Features



- 100-ohm, flexible, UTP horizontal cable
- Four twisted pairs
- High performance, designed for ATM 622 Mbps and Gigabit Ethernet 1000 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
- Halogen-free, flame-retardant (HFFR) or PVC jacket
- Available in easy-pull, ready-to-use box

Giga UTP Horizontal Cable

Description

The Giga UTP Horizontal Cable is a 100-ohm cable, with a halogen-free, flame-retardant (HFFR) or 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 and Gigabit - Ethernet 1000 Mbps.

Giga UTP Horizontal Cable
Specifications

Construction

- **Basic Wires**
  Conductor: eight wires, solid bare copper 0.51 mm OD (24 AWG)
  Insulation: polyolefin, 0.9mm OD

- **Pair Construction**
  Four pairs cabled together

- **Pair Color Codes (2 wires/pair)**
  Blue/white-blue, orange/white-orange, green/white-green, brown/white-brown

- **Wall Thickness**
  0.5 mm nominal

- **Overall Diameter**
  5.2 mm nominal, 5.4 mm max.

- **Outer Sheath**
  HFFR
  Halogen-free, flame retardant (HFFR) compound, colored light gray RAL 7032, with black printing.
  PVC
  SR PVC compound, colored light gray RAL 7032, with black printing

- **Printing**

  HFFR
  RIT R3729050 GIGA UTP DATA CABLE 100 OHM CATEGORY 5e ANSI/TIA/EIA-568-B.2……ISO/IEC 11801 2nd EDITION (2002) 4X2X24 AWG HFFR {METER} METER {BATCH NUMBER}

Giga UTP Horizontal Cable

Specifications

PVC
RIT R3729150 GIGA UTP DATA CABLE 100-ohm CATEGORY 5e ANSI/TIA/EIA-568-B.2.....ISO/IEC 11801 2nd EDITION (2002) 4X2X24 AWG {METER} METER {BATCH NUMBER}

PVC Figure 8
RIT R3727150 GIGA UTP DATA CABLE 100-ohm CATEGORY 5e ANSI/TIA/EIA-568-B.2....ISO/IEC 11801 2nd EDITION (2002) FIG.8 4X2X24 AWG {METER} METER {BATCH NUMBER}

Electrical

- **DC Resistance**
  Max. 93.8 ohm/km max. at 20°C
- **Resistance Unbalance**
  3% max. at 20°C
- **Mutual Capacitance**
  50±4 pF/m at 1 KHz
- **Capacitance Unbalance**
  3300 pF/km max. at 1 KHz
- **Impedance**
  100±15 W at 1 to 100 MHz
- **Voltage Rating**
  60 Vrms
- **Dielectric Strength**
  1700 VAC/one minute
- **Velocity of Propagation**
  68% nominal
- **Propagation Delay**
  5.3 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

Giga UTP Horizontal Cable

Specifications

Transmission Parameters

Frequency MHz	Attenuation dB/100m	Power Sum NEXT dB	Near End Crosstalk (NEXT) Loss dB	ACR dB/90m	Power Sum ACR dB/90m
1	1.9	70	73	71.3	68.3
4	3.8	62	64	60.6	58.6
10	6.1	58	60	54.5	52.5
16	7.9	54	56	48.9	46.9
20	8.8	51	54	46	43.1
31.25	11	48	50	40.1	38.1
62.5	15.8	44	48	33.8	29.8
100	20	41	44	26	23
155	25.5	38	40	17	15
160	26	37.5	39.5	16.1	14.1
200	30	36	38	11	9
250	32.7	35	37	7.3	5.3

Giga UTP Horizontal Cable

Specifications

General

- **Installation Temperature**
  0° to 50°C (32° to 122°F)
- **Operating Temperature**
  -20° to 60°C (-4° to 140°F)
- **Bending Radius (min.)**
  40 mm during installation
  20 mm during operation
- **Flammability Test**
  IEC 332-1 / UL 1581 VW-1
- **Weight**
  28 kg/km, nominal
- **Breaking Strength**
  200 N min.