

## CLASSix UTP Patch Cords

### *Features*



- Patch Cords are used in the work area and cross-connect generic cabling applications
- Comprise a length of eight-wire flexible patch cable, terminated with two eight-position RJ-45 plugs at each end
- Patch cords feature molded RJ-45 connectors for enhanced life and reliability
- Conforms to the ANSI/TIA/EIA-568-B.2-1, ISO/IEC 11801 2nd edition (2002) and CENELEC EN50173 (2002) for Category 6/Class E.
- 100% tested at the factory

## CLASSix UTP Patch Cords

### *Description*



The CLASSix UTP Patch Cord conforms to ANSI/TIA/EIA-568-B.2-1, ISO/IEC 11801 2nd edition (2002) and CENELEC EN50173 (2002) for Category 6/Class E. It has been tested up to 600 MHz, and is designed for high speed protocols such as ATM 622 Mbps and Gigabit Ethernet 1000 Mbps applications. Comprised of flexible patch cable and terminating with two modular plugs.

#### **CLASSix UTP Patch Cable**

The CLASSix UTP Patch Cable is a 100 ohm cable, with a PVC jacket and four twisted pairs for indoor installations

#### **CLASSix Modular Plug**

The CLASSix Plug is field-terminatable, with superior cable retention providing enhanced pull-strength and preventing pair deformation. The plug is designed to ensure precision wire placement, providing superior performance.

With RiT's Precision Placement Technology™ (PPT), the CLASSix Plug ensures high-repeatability Cross-Talk performance, with both factory and field termination. PPT enables Category 6 performance under any field condition.

The connectors have 8 contacts, and accommodate termination of 24 AWG solid and stranded conductors

# CLASSix UTP Patch Cords

## *Specifications*



### CLASSix UTP Patch Cable

#### 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, over a precision cross-shaped pair organizer
- **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**  
6.5±0.2 mm
- **Outer Sheath**  
Soft PVC compound, colored light- gray RAL 7035, with black printing
- **Printing**  
RiT R3229000 CLASSix UTP PATCH CABLE 100 OHM CATEGORY 6 4x2x24 AWG UTP [ ] METER [+Batch No.]

# CLASSix UTP Patch Cords

## *Specifications*



### Electrical

- **DC Resistance**  
Max. 96 Ohm/km max. at 20°C
- **Resistance Unbalance**  
3% max. at 20°C
- **Mutual Capacitance**  
47±4 pF/m nominal at 1 KHz
- **Capacitance Unbalance**  
3300 pF/km max. at 1 KHz (wire to ground)
- **Impedance**  
100±15 Ohm at 1 to 100 MHz  
100±(15 + 0.05(f-100)) W at f=100 to 250 MHz
- **Voltage Rating**  
230 Vrms
- **Dielectric Strength**  
700 VAC/one minute
- **Velocity of Propagation**  
75% nominal
- **Propagation Delay**  
5.3 nS/m max @ 1 MHz  
5.2 nS/m max @ 10 MHz  
5.2 nS/m max @ 100 MHz
- **Propagation Delay Skew**  
45 nS/100 m max @ 1-250 MHz

# CLASSix UTP Patch Cords

## *Specifications*



### General

- **Operating Temperature**  
-20° to 60°C (-4° to 140°F)
- **Flammability Test**  
IEC 332-1 / UL 1581 VW-1
- **Weight**  
38 kg/km, nominal

### CLASSix Modular Plug

#### Construction

- **Plug Housing**  
PC Resin UL-94V0
- **Contacts**  
High grade copper alloy
- **Plating**  
50 micro inch (1.27 micrometer) gold

#### Electrical

- **Current/Voltage Rating**  
1.5 Amps, 30 VAC / 56 VDC
- **Dielectric Withstanding**  
1000 volts RMS, 1 min. (60Hz)
- **Insulation Resistance**  
500 Mega ohms