CLASSix UTP SMART Jumper

Features

- SMART Jumpers are used in cross-connect PatchView applications
- Comprise a length of nine-wire flexible jumper cable, terminated with two ten-position RJ-45 plugs at the ends
- SMART Jumpers feature molded RJ-45 connectors for enhanced life and reliability
- Conform to 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 SMART Jumper

Description

The CLASSix SMART Jumper conforms to ANSI/TIA/EIA-568-B.2-1, ISO/IEC 11801 2nd edition (2002) and CENELEC EN50173 (2002) for Category 6/Class E and is designed for high-speed applications such as ATM 622 Mbps, Gigabit Ethernet 1000 Mbps and future high-speed applications. Comprised of flexible jumper cable and terminating with two modular plugs.

CLASSix UTP SMART Jumper Cable

The CLASSix UTP SMART Jumper Cable is a 100 cable for indoor installations. The cable is housed in a blue PVC jacket and includes four twisted pairs. An additional 26 AWG flexible, insulated conductor at the center of the cable serves as a control wire, which carries the PatchView scanning signal. In this way, scanning does not interfere with the data signal-carrying pairs. and At the heart of the RiT CLASSix Cabling System, the CLASSix Modular Plug is a Category 6 compliant RJ-45 plug designed with the newest generation of high-speed applications in mind

CLASSix UTP 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 Precesion 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 and 26 AWG solid and stranded conductors.

CLASSix UTP SMART Jumper

Specifications

CLASSix UTP SMART Jumper 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
- **Control Wire**
  Conductor: one wire, stranded bare copper, 7 x 0.16 mm (26 AWG) Insulation: solid polyolefin, 0.78 ± 0.01 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
- **Overall Diameter**
  6.5±0.2 mm
- **Outer Sheath**
  Soft PVC compound, colored blue RAL 5015, with black printing
- **Printing**
  RiT R3228000 CLASSix UTP SMART JUMPER CABLE 100 OHM CATEGORY 6
  4x2x24AWG + 1X26AWG UTP [ ] METER [+Batch No.]

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

CLASSix UTP SMART Jumper

Specifications

- **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

General

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

CLASSix UTP SMART Jumper

Specifications

CLASSix UTP 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 Megaohms