

CLASSix STP 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 STP SMART Jumper

Description



The CLASSix STP 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 it's designed for high speed protocols such as ATM 622 Mbps and Gigabit Ethernet 1000 Mbps applications. The CLASSix SMART Jumper is comprised of a flexible jumper cable and terminates with two modular plugs.

CLASSix STP Jumper Cable

CLASSix SMART Jumper Cable is a 100-ohm, double-shielded cable, designed for high data rates for indoor installations. The cable is housed in a blue, PVC jacket with a braided shield, and includes four individually shielded 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. As a result, scanning does not interfere with the data signal-carrying pairs.

CLASSix Modular Plugs

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 STP SMART Jumper

Specifications



CLASSix STP SMART Jumper Cable

Construction

■ Basic Wires

Conductor: eight wires, stranded bare copper, 7 x 0.16 mm (26 AWG)

Insulation: foam skin, polyolefin, 0.98±0.02 mm OD.

■ Control Wire

Conductor: one wire, stranded bare copper, 7 x 0.16 mm (26 AWG)

Insulation: solid polyolefin, 0.78±0.02mm outer diameter, color - red.

■ Pair Construction

Four pairs, each pair wrapped in polyester-aluminum foil (metal face outward), providing 100% coverage.

■ Pair Color Codes (2 wires/pair)

Blue/white, orange/white, green/white, brown/white.

■ Pair Arrangement

Four pairs cabled together around the control wire.

■ Overall Shield

Tinned-copper braid (providing 65% minimum coverage), laid in close contact with a 26 AWG stranded, tin-plated, copper drain wire.

■ Overall Diameter

6.0±0.2 mm.

■ Outer Sheath

Blue RAL 5015 soft PVC compound, with black printing.

■ Printing

RiT R3256000 CLASSix STP SMART JUMPER CABLE 100-ohm CATEGORY 6/ Class E 4xF (2x26 AWG) + 1x26 AWG S/STP [] METER [+ Batch No.].

CLASSix STP SMART Jumper

Specifications



Electrical

- **DC Resistance**
Max. 145 ohm/km at 20°C.
- **Resistance Unbalance**
2% max. at 20°C.
- **Mutual Capacitance**
43 pF/m nominal at 1 KHz.
- **Capacitance Unbalance**
1500 pF/km max. at 1 KHz (wire to ground).
- **Impedance**
100 \pm 15 ohm at 1 to 250MHz.
- **Voltage Rating**
30 V rms.
- **Dielectric Strength**
700 VAC/one minute min (wire to wire).
- **Transfer Impedance (Zt) (Shielding Effectiveness)**
5 m ohm/m max. at 1-10 MHz.
- **Velocity of Propagation**
77-80% nominal.
- **Propagation Delay**
5.7 nS/m max @ 1 MHz.
5.4 nS/m max @ 10 MHz.
5.3 nS/m max @ 250 MHz.
- **Propagation Delay Skew**
25 nS/100 m max @ 1-300 MHz.

CLASSix STP SMART Jumper

Specifications



General

- **Storage Temperature**
-30° to 70°C (22° to 158°F)
- **Operating Temperature**
-5° to 50°C (23° to 122°F)
- **Flammability Test**
IEC 332-1 / UL 1581 VW-1
- **Weight**
43kg/km, nominal

CLASSix Modular Plugs

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