



SMARTen STP Patch Cords

Features

SMARTen
WARRANTY

6A



- 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 non-molded RJ-45 plugs for enhanced life and reliability
- Slim design supporting high density environment
- Latch protection unique design for preventing cables snagging beneath the plug latch
- Conforms to ANSI/TIA/EIA-568-B.2-10, ISO/IEC 11801 2.1 edition and CENELEC EN50173 (200x) for Category 6A/CLASS E_A standards
- 100% tested at the factory



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Description



The SMARTen STP Patch Cord conforms to ANSI/TIA/EIA-568-B.2-10, ISO/IEC 11801 2.1 edition and CENELEC EN50173 (200x) latest drafts for Category 6A/CLASS E_A. It has been tested up to 500 MHz, Comprised of flexible patch cable and terminating with two modular plugs. The system is designed to support protocols running at up to IEEE 802.3an 10Gbps, 1000 Mbps, such as ATM 622 Mbps and Gigabit Ethernet.

SMARTen STP Patch Cable

The Cat 6A STP Patch Cable is a 100 ohm, double-shielded cable, designed for high data rates for indoor installations. The cable is housed in a gray HFFR jacket with a tinned-copper braid shield, and includes four individually shielded twisted pairs.

SMARTen Modular Plug

The **SMARTen** 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 **SMARTen** Plug ensures high-repeatability Cross-Talk performance, with both factory and field termination. PPT enables Category 6A performance under any field condition.

The connectors have 8 contacts, and accommodate termination of 24 AWG and 26 AWG solid and stranded conductors



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Specifications



SMARTen STP Patch Cable

Construction

- **Basic Wires**
Conductor: Eight wires, stranded bare copper, 7 x 0.16 mm (26 AWG)
Insulation: foam skin, polyolefin, 0.98±0.02mm OD.
- **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.
- **Overall Shield**
Tinned-copper braid (providing 65% coverage minimum), laid in close contact with a 26 AWG stranded, copper drain wire.
- **Overall Diameter**
6.0 ± 0.2mm max.
- **Outer Sheath**
Soft HFFR compound, colored light gray RAL 7035, with black printing.
- **Printing**
RiT R3268000 SMARTen STP PATCH CABLE 10G 100-ohm CATEGORY 6A / CLASS EA 4XF(2X26AWG) LSZH [] METER [Batch Number]



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Specifications

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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 15W at 1 to 500MHz.
- **Voltage Rating**
30 V rms.
- **Dielectric Strength**
700 VAC/one minute min (wire to wire).
- **Transfer Impedance (Zt) (Shielding Effectiveness)**
5 mOhm/m max. at 1-30 MHz.
- **Velocity of Propagation**
79-80% nominal.
- **Propagation Delay**
5.0 nS/m max @ 500 MHz.
- **Propagation Delay Skew**
30 nS/100 m max @ 1-500 MHz.



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Specifications

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General

- **Storage Temperature**
-30° to 70°C
- **Operating Temperature**
-20° to 60°C
- **Flammability Test**
IEC 332-1 / UL 1581 VW-1
- **Weight**
43kg/km, nominal

CLASSix STP 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