SMARTen STP Patch Cable

Features

- 100 ohm, foiled and shielded patch cable
- Four individually foiled twisted pairs with an overall braid-shield
- High performance, supportable bandwidth up to 500 MHz according to IEEE 802.3an 10Gbps
- Specified up to 500 MHz
- 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

SMARTen STP Patch Cable
Description

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 LSZH jacket with a tinned-copper braid shield, and includes four individually shielded twisted pairs. The cable 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 600 MHz, and is designed for high speed protocols such as ATM 622 Mbps and Gigabit Ethernet 1000 Mbps applications.

SMARTen STP Patch Cable
Specifications

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

- **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, tin-plated, copper drain wire

- **Overall Diameter**
  6.0 ± 0.2 mm max.

- **Outer Sheath**
  Soft LSZH compound, colored light gray RAL 7035, with black printing

- **Printing**
  RiT R3268000 SMARTen STP PATCH CABLE 10G 100 OHM CATEGORY 6A / CLASS E(A) 4XF(2X26AWG) LSZH [ ] METER [Batch Number]

SMARTen STP Patch Cable
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 ±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)**
  10 m ohm/m max. at 1-30 MHz
- **Velocity of Propagation**
  79-80% 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**
  30 nS/100 m max @ 1-500 MHz

SMARTen STP Patch Cable
Specifications

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

SMARTen STP Patch Cable
Ordering Information

Number	Description
R3268000	SMARTen STP Patch Cable, LSZH, 300m Reel