



The 30 AWG SMARTen STP Patch Cord is the thinnest patch cord available in the industry.

RiT is the First one to offer such small diameter Patch cord. This patch cord conforms to ANSI/TIA-568.2-E, ISO/IEC 11801 2.1 edition and CENELEC EN50173 (2007) for Category 6A/CLASS EA. 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.

## TECHNICAL SPECIFICATIONS

Cat.6A Performance to supports high-speed protocols: 10GBASE-T up to 100 Meters

30AWG Cord makes it slimmest in the industry resulting in better Patch cord Management in highly density environment.

Product is designed to reduce the management of cords and provide flexibility due to smaller cord diameter. This is as per the new standard guidelines.

## PRODUCT FEATURES

- Fully backward compatible with Category 6
- Easy to connect and tested for performance.
- Polyester Aluminium foil on each pair along with Braid shield
- Gold-Plated Copper Contacts Provide Corrosion Resistance and Signal Conductivity
- 100% tested at the factory



## TECHNICAL FEATURES

SMARTen STP Patch Cable Construction	
Basic Wires	Conductor: Eight wires stranded bare copper, 7 x 0.10mm (30 AWG). Insulation: foam skin, polyolefin, 0.68±0.02mm OD.
Pair Construction	4 pairs. Each pair wrapped in polyester-aluminum foil, along with Braid Shield
Pair Color Codes (2 wires/pair)	Blue/white, orange/white, green/white, brown/white
Shield	Overall Braid Shield
Overall Diameter	4.5 ± 0.2 mm max.
Outer Sheath	LSZH – IEC-60332-1
Electrical	
DC Resistance	Max. 376 Ω/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 ±15 Ω at 1-500MHz
Voltage Rating	30 V rms
Dielectric Strength	500 VAC/one minute mean (wire to wire)
Velocity of Propagation	77-80% nominal
General	
Storage Temperature	-20°C to 60°C
Operating Temperature	-10°C to 50°C
Smoke Density	IEC 61034-2
SMARTen STP Modular Plugs Construction	
Plug Housing	PC Resin UL-94V2
Contacts	High grade copper alloy
Plating	50 micro-inch (1.27 micro-meter) 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



## ORDERING INFORMATION

P/N	DESCRIPTION
R4650XXX	SMARTen (CAT6A) STP Patch Cord, 30AWG, LSZH, Molded, White
R4651XXX	SMARTen (CAT6A) STP Patch Cord, 30AWG, LSZH, Molded, Purple
R4652XXX	SMARTen (CAT6A) STP Patch Cord, 30AWG, LSZH, Molded, Yellow
R4653XXX	SMARTen (CAT6A) STP Patch Cord, 30AWG, LSZH, Molded, Black
R4654XXX	SMARTen (CAT6A) STP Patch Cord, 30AWG, LSZH, Molded, Red
R4655XXX	SMARTen (CAT6A) STP Patch Cord, 30AWG, LSZH, Molded, Green
R4656XXX	SMARTen (CAT6A) STP Patch Cord, 30AWG, LSZH, Molded, Blue
R4657XXX	SMARTen (CAT6A) STP Patch Cord, 30AWG, LSZH, Molded, Gray
R4658XXX	SMARTen (CAT6A) STP Patch Cord, 30AWG, LSZH, Molded, Orange

**Note:**

The last 3 digits represent patch cord length in XX.X Decimeters

For example:R4650035 SMARTen (CAT6A) STP Patch Cord, 30AWG, LSZH, Molded, White, 3.5 Meters