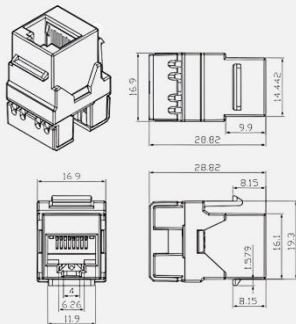


## SCHNELL CAT 6A S/FTP TOOL LESS KEYSTONE JACK

The Schnell CAT-6A Shielded Tool-less Keystone Jack provides superior performance for 10 Gigabit Ethernet applications. Designed with full 360° shielding (S/FTP) to ensure maximum protection against EMI/RFI. Tool-less termination simplifies installation, while supporting T568A & T568B wiring schemes. Ideal for high-density data centers and enterprise networks.



### DIAGRAM & CONSTRUCTION

<p><b>Housing Material</b> : Zinc alloy, fully shielded 360° metal body</p> <p><b>Contact Material</b> : Phosphor bronze with 50 µin gold plating over nickel</p> <p><b>Insulation Material</b> : High-performance, flame-retardant thermoplastic (UL94V-0 rated)</p>		<p><b>IDC / Termination Style</b> : Dual IDC (110 / Krone), tool-less termination cap</p> <p><b>Wiring Compatibility</b> : T568A &amp; T568B colour coding</p> <p><b>Cable OD Supported</b> : 6.0 – 9.0 mm (solid or stranded)</p> <p><b>AWG Support</b> : 22 – 26 AWG</p> <p><b>Dust Protection</b> : Optional shutter or dust cover</p>
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### PHYSICAL CHARACTERISTICS

Frequency / Bandwidth	: Up to 500 MHz (Cat6A)
Impedance	: 100 Ω nominal
Contact Resistance	: ≤ 20 mΩ
Insulation Resistance	: ≥ 500 MΩ
Dielectric Withstand Voltage	: 1000 V RMS, 60 Hz for 1 minute
Voltage Rating	: 230 V RMS Max
PoE Support	: IEEE 802.3af / at / bt (PoE, PoE+, and PoE++)

### ELECTRICAL & TRANSMISSION CHARACTERISTICS

Mating / Insertion Cycles	: ≥ 750 plug insertions/removals
Operating Temperature	: -10 °C to +60 °C
Storage Temperature	: -40 °C to +70 °C
Dimensions (Typical)	: Standard keystone size, depth ~42–45 mm including shield
Plug Retention Force	: ≥ 133 N
Finish / Color Options	: Metal finish (nickel/silver), optional colored ID caps

### KEY FEATURES

- Tool-less 180° termination – no punch-down tool required
- Fully shielded (S/FTP) 360° metal housing for superior EMI protection
- Supports 10GBASE-T Ethernet up to 100 m
- Backward compatible with Cat6 and Cat5e systems
- PoE, PoE+ and PoE++ ready
- Compact size for high-density patch panels and faceplates

### KEY APPLICATIONS

- Gigabit Ethernet (1000BASE-T) patch panels & backbones
- High-interference environments (labs, industrial, server rooms)
- Wall plates, surface mount, and modular faceplates
- PoE / PoE+ deployments where shielding is beneficial

REACTION TO FIRE		STANDARDS
Flammability Rating	: UL 94 V-0	<ul style="list-style-type: none"> <li>ANSI/TIA-568.2-D (Cat6A)</li> <li>ISO/IEC 11801 Class EA</li> <li>IEEE 802.3an (10GBASE-T)</li> <li>IEC 60603-7-51 shielded modular jack standard</li> <li>RoHS / REACH compliant</li> </ul>
RoHS Compliance	: Yes	

### TRANSMISSION PERFORMANCE OF DATA CHANNEL

Freq in MHz	Attenuation dB/100m @ 20°C	NEXT dB	PSNEX dB	RL dB	ACR dB
1	1.7	86.3	83.3	23.0	84.6
4	3.4	85.0	83.0	23.0	75.6
10	5.4	77.3	74.3	25.0	71.9
20	7.6	70.0	67.0	25.0	62.4
31.25	9.7	68.0	65.0	23.8	58.3
100	18.0	65.3	62.3	21.1	47.3
150	23.6	62.0	59.8	18.8	38.4
200	27.4	59.0	57.2	18.0	31.6
250	31.0	57.6	54.6	17.3	26.6
300	34.2	55.0	52.0	16.8	20.8
400	40.0	53.0	51.8	16.8	13.0
500	42.2	52.0	50.0	16.8	9.8

### PART NUMBER

Part Number	Description
SCZ-5010C6ASTKJ	SCHNELL CAT 6A S/FTP TOOL LESS KEYSTONE JACK