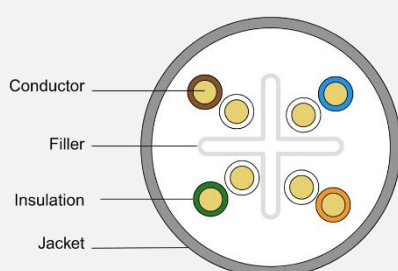


SCHNELL CAT 6A U/UTP 23 AWG 4 PAIR CABLE

Schnell Category 6A U/UTP cables exceed Class EA standards and are tested up to 500 MHz, supporting 10 Gigabit applications over the full 100 meters. With superior pair-balance, they offer excellent electromagnetic compatibility (EMC), minimizing signal radiation, enhancing noise immunity, and delivering strong alien crosstalk performance in unshielded twisted pair (U/UTP) cabling systems.



DIAGRAM & CONSTRUCTION

<p>Conductor Material : Bare Copper</p> <p>Conductor Size : 23 AWG</p> <p>Conductor Type : Solid</p> <p>Insulation Material : HDPE</p> <p>Insulation O.D. : 1.02 ± 0.05 mm</p> <p>Color Code : Per TIA/EIA 568-B</p> <p>Conductor Unit : Pairs</p> <p>Lay-Up</p>		<p>Total Number of Wires : 8</p> <p>Outer Jacket Material : PVC / LSOH</p> <p>Outer Jacket Thickness & Diameter : 0.70 ± 0.05 mm, 7.1 ± 0.4 mm</p> <p>Outer Jacket Color : As per requirement</p> <p>Rip Cord : Not included</p>
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ELECTRICAL CHARACTERISTICS

Bandwidth	: Up to 500 MHz
Characteristic Impedance	: 100 ± 15Ω (1–250 MHz), 100 ± 22Ω (250–500 MHz)
DC Resistance	: 93.8 Ω/km
Capacitance	: ≤ 5.6 nF/100m
Delay Skew	: ≤ 25 ns/100m

PHYSICAL CHARACTERISTICS

Short-Term Bend Radius	: 8 × OD mm
Long-Term Bend Radius	: 4 × OD mm
Operating Temperature Range	: -20°C to +75°C

KEY FEATURES

- Exceeds Category 6A/Class EA standards
- Supports 10 Gigabit Ethernet up to 100 meters
- High EMC performance with minimal alien crosstalk
- LSZH or PVC jacket for safety and flexibility
- Tested to 500 MHz for high-speed data transmission

KEY APPLICATIONS

- Data centers and high-speed backbone cabling
- Office buildings and structured LAN networks
- PoE and PoE+ applications (IEEE 802.3af/at)
- Video, voice, and high-bandwidth data transmission
- Environments requiring EMI resistance and low smoke

REACTION TO FIRE

Flame Retardance	: UL 94 V-0 (with LSZH jacket)
Smoke Generation	: Low (LSZH option)
Halogen Content	: Zero (LSZH)
Toxic Gas Emission	: Minimal (LSZH)
Suitable for Plenum Use	: Optional, with LSZH jacket

STANDARDS

- ANSI/TIA-568.2-D, ISO/IEC 11801
- Flame rating: UL 94 V-0 (LSZH)
- Safety: UL 1863 certified
- RoHS compliant (lead-free)
- PoE-ready: IEEE 802.3af / 802.3at

TRANSMISSION PERFORMANCE

Freq. MHz	Attenuation (20°C) ≤dB	NEXT dB	PHASE DELAY ≤ns	PSNEXT dB	ELFEXT ≥dB	PSELFEXT ≥dB	RL ≥dB
1	2.1	74.3	570	72.3	67.8	64.8	20
4	3.8	65.3	552	63.3	55.8	52.8	23
8	5.3	60.8	546.7	58.8	49.7	46.7	24.5
10	5.9	59.3	545.4	57.3	47.8	44.8	25
16	7.5	56.2	543	54.2	43.7	40.7	25
20	8.4	54.8	542.1	52.8	41.8	38.8	25
25	9.4	53.3	541.2	51.3	39.8	36.8	24.3
31.25	10.5	51.9	540.4	49.9	37.9	34.9	23.6
62.5	15	47.4	538.6	45.4	31.9	28.9	21.5
100	19.1	44.3	537.6	42.3	27.8	28.9	20.1
200	27.6	39.8	536.5	37.8	21.8	18.8	18
250	31.1	38.3	536.3	36.3	19.8	16.8	17.3
300	34.3	37.1	536.1	35.1	18.3	15.3	16.8
500	45.3	33.8	535.6	31.8	13.8	10.8	15.2

PACKING INFORMATION

Part Number	Packing Mode	Roll Length	N.W (kg)	G.W (kg)	Dimension (mm)
SCZ-5010C6A23GY	Pulley Box	305 Mtr	12.1	13.0	400 x 400 x 220
SCZ-5010C6A23LZGY	Pulley Box	305 Mtr	12.1	13.0	400 x 400 x 220

PART NUMBER

Part Number	Description
SCZ-5010C6A23GY	SCHNELL CAT 6A 23 AWG 4 PAIR UTP CABLE PVC GREY 305 MTR
SCZ-5010C6A23LZGY	SCHNELL CAT 6A 23 AWG 4 PAIR UTP CABLE LSZH GREY 305 MTR