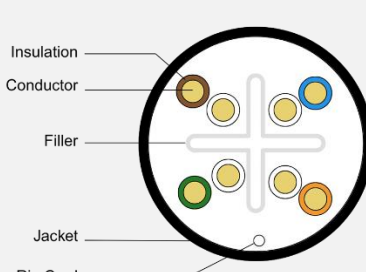


## SCHNELL CAT 6A UTP 23 AWG OUTDOOR 4 PAIR CABLE

Schnell Category 6A U/UTP outdoor cables exceed Class EA standards, tested to 500 MHz and support 10 Gigabit Ethernet up to 100m. Built with solid 23 AWG bare copper and HDPE insulation, they ensure excellent EMC with high pair balance, minimizing radiation and enhancing noise immunity. A PE outer jacket provides durability for harsh environments and long-term outdoor performance.



### DIAGRAM & CONSTRUCTION

Conductor Material	: Bare Copper		Color Code	: Per TIA/EIA 568-B
Conductor Size	: 23 AWG		Rip Cord	: Yes
Conductor Type	: Solid		Outer Jacket	: PE (Polyethylene)
Insulation Material	: High-Density PE		Material	
Insulation Diameter	: 1.03 mm		Outer Jacket	: 0.65 ± 0.05 mm,
Conductor Unit Layup	: Pairs		Thickness &	6.9 ± 0.4 mm
Total No. of Wires	: 8 (4 pairs)		Diameter	
			Outer Jacket Color	: As per requirement

### ELECTRICAL CHARACTERISTICS

Bandwidth	: Up to 500 MHz
Characteristic Impedance	: 100 ± 6 Ω (1–500 MHz)
DC Resistance	: ≤ 72 Ω/km
Capacitance	: 45 pF/m (nominal)
Delay Skew	: ≤ 25 ns/100m

### PHYSICAL CHARACTERISTICS

Pulling Force	: Max. 110 N/mm <sup>2</sup>
Resistance Unbalance	: ≤ 2%
Capacitance Unbalance	: ≤ 1500 pF/km (Wire to Ground)
Insulation Resistance	: ≥ 5000 MΩ·km
Bend Radius (Short-Term)	: 8 × OD mm
Bend Radius (Long-Term)	: 4 × OD mm
Operating Temp. Range	: -20°C to +60°C

### KEY FEATURES

- Exceeds Category 6A/Class EA specifications
- Supports 10GBASE-T up to 100m
- Tested up to 500 MHz for high-speed performance
- HDPE insulation and tough PE jacket for outdoor use
- Excellent EMC and noise immunity with high pair balance

### KEY APPLICATIONS

- Outdoor LAN and structured cabling
- Long-distance 10 Gigabit Ethernet runs
- Surveillance systems and PoE networks
- Campus and industrial network installations
- UV and weather-resistant environments

### REACTION TO FIRE

Flame Rating	: IEC 60332-1 compliant
Jacket Type	: PE – not halogen-free
UV Resistance	: Yes – suitable for outdoor use
Toxic Gas Emission	: Moderate

### STANDARDS

- ANSI/TIA-568.2-D, ISO/IEC 11801
- Flame rating: PE (UV/weather resistant, not LSZH)
- RoHS compliant (lead-free)
- Suitable for IEEE 802.3af / 802.3at (PoE/PoE+)

**TRANSMISSION PERFORMANCE**

Freq.	Attenuation	NEXT	PSNEXT	RL	ACR	ELFEXT dB	PS ELFEXT
MHz	dB/100m @ 20°C	dB	dB	dB	dB		dB
1	1.7	86.3	83.3	26	84.6	84	80
4	3.4	85	83	29	75.6	81	78
10	5.4	77.3	74.3	31	71.9	76	73
20	7.6	70	67	30	62.4	70	67
31.25	9.7	68	65	29.8	58.3	65	63
100	18	65.3	62.3	27.1	47.3	55	52.8
150	23.6	62	59.8	26	38.4	53.5	51.5
200	27.4	59	57.2	25	31.6	49	46
250	31	57.6	54.6	25.2	26.6	44	41
300	34.2	55	52	24	20.3	39.6	36.6
400	40	53	51.8	21.8	13	37	34
500	42.2	52	50	21.8	9.8	35	33.3

**PACKING INFORMATION**

Part Number	Packing Mode	Roll Length	N.W (kg)	G.W (kg)	Dimension (mm)
SCZ-5010C6AUTPOBK	Plywood Reel/Ctn	305 Mtr	19.1	20.0	380 x 380 x 260
SCZ-5010C6AUTPOLSBK	Plywood Reel/Ctn	305 Mtr	19.1	20.0	380 x 380 x 260

**PART NUMBER**

Part Number	Description
SCZ-5010C6AUTPOBK	SCHNELL CAT6A UTP 23 AWG OUTDOOR 4 PAIR CABLE PE 305 MTR BLACK
SCZ-5010C6AUTPOLSBK	SCHNELL CAT6A UTP 23 AWG OUTDOOR 4 PAIR CABLE PE 305 MTR BLACK LSZH