

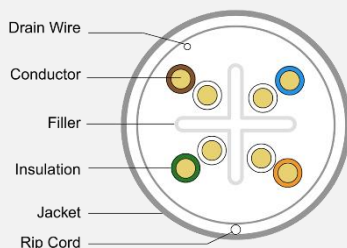
SCHNELL CAT 6A F/UTP 23 AWG 4 PAIR CABLE

Schnell Category 6A F/UTP 23 AWG cable is designed for high-speed 10 Gigabit Ethernet applications, tested up to 500 MHz. Its foil shielding over pairs reduces EMI and crosstalk, ensuring stable performance in noisy environments. Ideal for backbone and horizontal cabling in data centers and commercial buildings, it complies with ANSI/TIA-568.2-D and ISO/IEC 11801 standards.



DIAGRAM & CONSTRUCTION

Conductor	: Bare Copper
Material	
Conductor Size	: 23 AWG
Conductor	: Solid
Type	: HDPE
Insulation	



Material	: Foil (F/UTP - overall foil shield)
Shielding	
Drain Wire	: Tinned Copper
Outer Jacket	: PVC / LSZH
Material	: As per requirement
Jacket Color	

ELECTRICAL CHARACTERISTICS

Characteristic Impedance	: 100 ± 10 Ohms @ 1–500 MHz
DC Resistance	: ≤ 9.38 Ohm/100 m
Resistance Unbalance	: $\leq 5\%$
Capacitance Unbalance	: ≤ 160 pF/100 m
Propagation Delay Skew	: ≤ 45 ns/100 m
Voltage Rating	: 300V DC Up to 500 MHz

PHYSICAL CHARACTERISTICS

Cable Diameter	: 7.5 ± 0.3 mm
Minimum Bend Radius	: $8 \times OD$
Operating Temperature	: -20°C to $+75^\circ\text{C}$
Installation Temperature	: 0°C to $+60^\circ\text{C}$
Storage Temperature	: -20°C to $+75^\circ\text{C}$

KEY FEATURES

- Supports 10GBASE-T up to 100 meters
- Overall foil shielding for EMI protection
- High-performance for data center environments
- Complies with Category 6A/Class EA standards

KEY APPLICATIONS

- Data center structured cabling
- Backbone cabling for high-speed networks
- PoE and PoE+ compatible installations
- Voice, video, and high-speed data transmission

REACTION TO FIRE

Flame Retardant	: IEC 60332-1, UL 94V-0
Smoke Density	: IEC 61034-2
Halogen Content	: IEC 60754-1 & 2
LSZH Rating	: Yes: Optional, with LSZH jacket

STANDARDS

- ANSI/TIA-568.2-D
- ISO/IEC 11801 Class EA
- EN 50173-1
- IEC 61156-5
- RoHS Compliant

TRANSMISSION PERFORMANCE

Freq. MHz	Attenuation dB/100m @ 20°C	NEXT dB	PSNEXT dB	RL dB	ACR dB	ELFEXT dB	PSELFEXT dB
1	1.7	86.3	83.3	23.0	84.6	84.0	80.0
4	3.4	85.0	83.0	23.0	75.6	81.0	78.0
10	5.4	77.3	74.3	25.0	71.9	76.0	73.0
20	7.6	70.0	67.0	25.0	62.4	70.0	67.0
31.25	9.7	68.0	65.0	23.8	58.3	65.0	63.0
100	18.0	65.3	62.3	21.1	47.3	55.0	52.8
150	23.6	62.0	59.8	18.8	38.4	53.5	51.5
200	27.4	59.0	57.2	18.0	31.6	49.0	46.0
250	31.0	57.6	54.6	17.3	26.6	44.0	41.0
300	34.2	55.0	52.0	16.8	20.8	39.6	36.6
400	40.0	53.0	51.8	16.8	13.0	37.0	34.0
500	42.2	52.0	50.0	16.8	9.8	35.0	33.0

PACKING INFORMATION

Part Number	Packing Mode	Roll Length	N.W (kg)	G.W (kg)	Dimension (mm)
SCZ-5010C6A23FGY	Plywood Reel/Ctn	305 Mtr	17.1	18.7	420 x420x 260
SCZ-5010C6A23FLZGY	Plywood Reel/Ctn	305 Mtr	17.1	18.7	420 x420x 260

PART NUMBER

Part Number	Description
SCZ-5010C6A23FGY	SCHNELL CAT 6A 23 AWG 4 PAIR F/UTP CABLE PVC GREY 305 MTR
SCZ-5010C6A23FLZGY	SCHNELL CAT 6A 23 AWG 4 PAIR F/UTP CABLE LSZH GREY 305 MTR