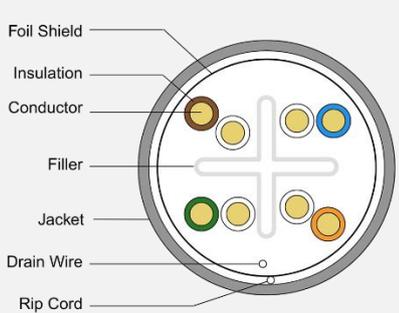


SCHNELL CAT6 F/UTP 23 AWG 4 PAIR CABLE

Schnell Cat6 F/UTP 23 AWG 4-pair cable meets Category 6/Class E specifications and is tested to 250 MHz. Designed for Gigabit Ethernet (1000BASE-T/TX) over 100 m, it features an overall foil shield that minimizes EMI and alien crosstalk. With high pair-balance, PE insulation, LSZH jacketing, and a drain wire, it delivers superior noise immunity and EMC performance in demanding installations.



DIAGRAM & CONSTRUCTION

Conductor	: Solid bare copper, 23 AW		Drain Wire	: Tinned copper 0.41 mm : LSZH, 0.60 ± 0.05 mm,
Insulation	: High-density PE, 1.09 mm		Outer Jacket	: 7.4 ± 0.4 mm ø
Pair Separator	: Polyester tape		Rip Cord	: Yes
Shield	: 100% aluminum/polyester foil		Color Code & Marking	: Per TIA/EIA-568B; custom per requirement

ELECTRICAL CHARACTERISTICS

Frequency Range	: 1–250 MHz
Impedance	: 100 Ω ±15 Ω
DC Resistance	: 73 Ω/km nominal
Capacitance	: ≤ 5.6 nF/100 m
Max Resistance	: ≤ 4 %
Unbalance	
Velocity of Propagation	: 69 %
Delay Skew	: ≤ 35 ns/100 m
Dielectric Strength	: 1 kV/min
Insulation Resistance	: ≥ 5 GΩ·km

PHYSICAL CHARACTERISTICS

Number of Pairs	: 4
Outer Diameter	: 7.4 ± 0.4 mm
Outer Jacket Color	: Per requirement or standard purple for LSZH E-Series -10 °C +70 °C
Min. Bend Radius	: ≥ 53.6 mm
Operating Temperature	: -10 °C to +65 °C

KEY FEATURES

- 100% overall foil shield with drain wire for superior EMC
- LSZH jacket, rip cord, and PE insulation for professional installations
- Meets stringent alien crosstalk and EMC requirements
- Supports Gigabit Ethernet and demanding Cat6 applications

KEY APPLICATIONS

- High-performance LAN and structured cabling
- Industrial and EMI-sensitive environments
- Data centers and backbone connections
- PoE, VoIP, and high-speed Ethernet networks

REACTION TO FIRE		STANDARDS
Material Identifier	: HF1	<ul style="list-style-type: none"> ANSI/TIA-568-C.2:2009 Cat 6 ISO/IEC-11801 Class E IEC-61156-5 Cat 6 EN-50288-5-1, EN-50173, EN-50575 CPR Eca, LSZH per relevant IEC standards
Material Description	: Standard HFFR-LS	
Flammability Rating	: IEC/EN 60332-1-2	
Classification / Euro Class	: Eca	

TRANSMISSION PERFORMANCE

Freq. MHz	Attenuation dB/100m @ 20°C	NEXT dB	PSNEXT dB	RL dB	ELFEXT dB	PSELFEXT dB
1	2.0	80.0	78.0	27.0	81.8	77.8
4	3.8	75.0	72.8	30.0	76.8	73.8
10	6.0	71.0	69.0	30.0	70.0	67.8
20	8.5	62	60.2	30.0	58.8	55.8
31.25	10.4	60.9	58.9	28.6	56.8	53.3
100	19.8	54.0	52.0	26.0	47.8	44.8
150	24.7	50.7	48.7	25.1	43.3	40.3
200	29.0	48.1	46.1	23.8	38.8	35.8
250	32.8	46.3	44.3	22.0	36.8	33.8

PACKING INFORMATION

Part Number	Packing Mode	Roll Length	N.W (kg)	G.W (kg)	Dimension (mm)
SCZ-5010C623FGY	Plywood Reel/Ctn	305 Mtr	17.1	18.7	420 x420x 260
SCZ-5010C623FLZGY	Plywood Reel/Ctn	305 Mtr	17.1	18.7	420 x420x 260

PART NUMBER

Part Number	Description
SCZ-5010C623FGY	SCHNELL CAT6 F/UTP 23 AWG 4 PAIR CABLE PVC
SCZ-5010C623FLZGY	SCHNELL CAT6 F/UTP 23 AWG 4 PAIR CABLE LSZH