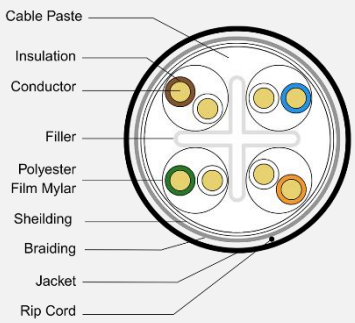
DATASHEET

SCHNELL CAT6 S/FTP 23 AWG 4 PAIR OUTDOOR CABLE

Schnell Category 6 S/FTP 4 Pair External Cable exceeds Cat 6/Class E standards, tested up to 250 MHz, and supports Gigabit 1000Base-T/TX up to 100 meters. Its S/FTP construction provides superior electromagnetic compatibility (EMC), minimizes external interference, and improves alien crosstalk, making it ideal for shielded, high-speed networking in demanding environments.

DIAGRAM & CONSTRUCTION

Conductor Material	: Bare Copper
Conductor Size	: 23 AWG
Conductor Type	: Solid, 0.58± 0.01
Insulation Material	: High Density PE
Insulation Normal Thickness	: 0.28±0.02 mm
Insulation Diameter	: 1.15± 0.02 mm
Inner Layer Pitch	: 30 mm
REF	underneath
Outside Layer Pitch	: 100 ± 5mm
Number of Wires	: 8
Cross Material	: Polyethylene



Cross Diameter	: 5.5*5.5±0.1mm
Shielding 1 Material	: Mylar Spirally Wrapped
Shielding 2 Material	: Aluminum Mylar Spirally Wrapped
Coverage	: 100% coverage with 25% overlapping
Braiding Material	: ALM (16/5/0.12)
Braiding Coverage	: 60%
Rip Cord	: Nylon
Outer Jacket Material	: PVC / LSZH
Outer Jacket Thickness	: 0.60 ± 0.55 mm
Outer Jacket Diameter	: 80 mm ± 0.20 mm
Outer Jacket color	: Black

ELECTRICAL CHARACTERISTICS

Insulation Resistance	: Min 5000 mega ohms-km at 20℃
Dielectric Test	: 1000V DC /1 min No Breakdown
Temperature Rating	: 60℃
Voltage Rating	: 30 V

PHYSICAL CHARACTERISTICS

Operating Temperature	: -10 °C +70 °C
Min Bend Radius	: 58 mm
Tensile Strength	: 110 N

KEY FEATURES

- S/FTP construction with foil-shielded pairs and braided overall shield
- 23 AWG solid bare copper conductors
- Enhanced EMI and alien crosstalk suppression
- LSZH jacket – flame retardant and low smoke
- Tested up to 250 MHz for high-speed transmission

KEY APPLICATIONS

- Gigabit Ethernet (1000Base-T/Tx)
- PoE/PoE+ (IEEE 802.3af/at)
- Shielded LAN in high EMI environments
- Data centers and backbone cabling
- IP CCTV and smart building systems
- Outdoor and industrial installations

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REACTION TO FIRE

Material Identifier	: HF1
Material Description	: Standard HFFR-LS
Flammability Rating	: IEC/EN 60332-1-2
Classification / Euro Class	: Eca

STANDARDS

- TIA-568.2-D Category 6 compliant
- ISO/IEC 11801 Class E
- IEC 61156-5
- IEC 60332-1 (flame retardant)
- IEC 60754 & IEC 61034 (low smoke, zero halogen)

TRANSMISSION PERFORMANCE

Freq. MHz	Attenuation dB/100m @ 20°C	NEXT dB	PSNEXT dB	RL dB	ELFEXT dB	PS.ACRF dB
1	1.9	87.6	82.6	28.0	85.0	80.0
4	3.5	79.2	74.2	30.0	73.0	68.0
10	5.6	73.3	68.3	29.0	65.0	60.2
20	8.4	69.1	63.8	29.0	59.0	54.0
31.25	10.0	66.0	61.1	28.6	55.1	50.3
100	18.9	58.0	53.0	25.1	45.0	40.1
150	24.0	55.2	50.7	23.8	41.8	36.9
200	26.1	53.0	48.0	22.8	39.0	33.8
250	30.0	52.6	47.6	22.0	37.8	32.8

PACKING INFORMATION

Part Number	Packing Mode	Roll Length	N.W (kg)	G.W (kg)	Dimension (mm)
SCZ-5010C6SFTPOBK	Plywood Reel/Ctn	305 Mtr	17.1	18.7	420 x420x 260
SCZ-5010C6SFTPOLSBK	Plywood Reel/Ctn	305 Mtr	17.1	18.7	420 x420x 260

PART NUMBER

Part Number	Description
SCZ-5010C6SFTPOBK	SCHNELL CAT6 S/FTP 23 AWG OUTDOOR 4 PAIR CABLE PE
SCZ-5010C6SFTPOLSBK	SCHNELL CAT6 S/FTP 23 AWG OUTDOOR 4 PAIR CABLE PE LSZH

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