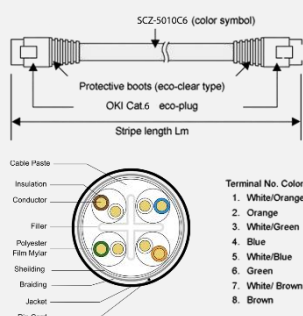


## SCHNELL CAT 6 S/FTP PATCH CORDS

Schnell Cat6 S/FTP patch cords deliver premium Category 6/Class E performance up to 250 MHz. Built with individually foiled twisted pairs and an overall tinned copper braid, they ensure exceptional EMC, alien-crosstalk suppression, and Gigabit Ethernet support. Available in LSZH or PVC jackets, with over-molded boots and strain-relief caps, each cord is factory-tested for insertion and return loss.



### DIAGRAM & CONSTRUCTION

<p><b>Conductor</b> : Stranded bare annealed copper, 26 AWG</p> <p><b>Pair Insulation</b> : SFS PE</p> <p><b>Individual Pair</b> : Aluminum-polyester foil</p> <p><b>Shield</b> : Tinned copper braid (≈45 %)</p> <p><b>Drain Wire</b> : Integral</p>		<p><b>Outer Jacket &amp; Boots</b> : LSZH or PVC</p> <p><b>Boot Design</b> : Over-molded anti-snag with strain relief</p> <p><b>Outer Diameter</b> : ≈ 6.0 ± 0.2 mm</p> <p><b>Cable Color</b> : Customizable (standard grey/white/black)</p> <p><b>Wire Map</b> : T568B</p>
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### ELECTRICAL CHARACTERISTICS

Impedance	: 100 Ω ±15 Ω @ 1–250 MHz
DC Resistance	: < 73 Ω/km
Contact Resistance	: ≤ 20 mΩ per contact
Resistance Unbalance	: ≤ 2 %
Voltage Rating	: 150 VAC max
Dielectric Strength	: 1 kV/min rms
Insulation Resistance	: ≥ 150 MΩ·km
Pair-to-Ground	: ≈ 3.3 nF/km
Capacitance	
Propagation Delay Skew	: < 25 ns/100 m

### MECHANICAL CHARACTERISTICS

Cable-to-Plug Tensile Strength	: ≥ 96 N
Max Pull-Force	: 10 N
Durability	: ≥ 1000 mating cycles
Propagation Delay 1–250 MHz	: < 25 ns/100 m
Min Bend Radius (without load)	: ≥ 25 mm
Temp Range (Storage)	: –20 °C to +80 °C
Temp Range (Operation)	: –20 °C to +75 °C
Flammability	: IEC 60332-1
Halogen Content (LSZH)	: None

### KEY FEATURES

- Individually foil-shielded pairs + braided shield for superior EMC
- LSZH or PVC jacket with over-molded snag-resistant boot
- Supports Gigabit Ethernet with low insertion/return loss
- Suitable for PoE/PoE+, tested 1000 mating cycles

### KEY APPLICATIONS

- High-performance LANs, Gigabit Ethernet backbones
- EMI-prone environments like industrial areas or data centers
- Structured cabling and patch panels
- PoE/PoE+ deployments

REACTION TO FIRE		STANDARDS
Flame Retardant Standard	: IEC 60332-1	<ul style="list-style-type: none"> <li>• IEEE 802.3af / 802.3at PoE certified</li> <li>• ANSI/TIA-568.2-D &amp; ISO/IEC-11801 Class E</li> <li>• IEC 61156-2 Category 6</li> <li>• EN 50173 &amp; EN 50288-6-2</li> <li>• UL 444 &amp; UL Verified for patch cords</li> </ul>
Smoke Emission (LSZH)	: Complies with IEC 61034	
Halogen Content (LSZH)	: IEC 60754-1 / 60754-2 compliant	

### ELECTRICAL PERFORMANCE DATA

Freq. MHz	NEXT(dB) min.			RL(dB) min.
	2m cord	5m cord	10m cord	
1	68.0	68.0	68.0	20.0
4	65.0	65.0	65.0	21.8
10	64.8	64.2	62.8	22.5
20	60.9	58.6	57.2	23.4
30	56.2	54.9	53.6	23.0
60	50.4	49.2	48.1	20.0
100	46.4	45.3	44.4	18.0
125	44.5	43.5	42.7	17.0
150	43.2	42.2	41.1	16.2
200	40.8	39.6	39.1	15.0
250	38.8	37.9	37.6	13.8

### PART NUMBER

Part Number	Description	Outer Jacket Material
SCZ-5010C6PCS0012GY	SCHNELL CAT6 S/FTP PATCH CORD 0.12 MTR GREY	PVC/LSZH
SCZ-5010C6PCS0015GY	SCHNELL CAT6 S/FTP PATCH CORD 0.15 MTR GREY	PVC/LSZH
SCZ-5010C6PCS002GY	SCHNELL CAT6 S/FTP PATCH CORD 0.2 MTR GREY	PVC/LSZH
SCZ-5010C6PCS003GY	SCHNELL CAT6 S/FTP PATCH CORD 0.3 MTR GREY	PVC/LSZH
SCZ-5010C6PCS005GY	SCHNELL CAT6 S/FTP PATCH CORD 0.5 MTR GREY	PVC/LSZH
SCZ-5010C6PCS01GY	SCHNELL CAT6 S/FTP PATCH CORD 1 MTR GREY	PVC/LSZH
SCZ-5010C6PCS02GY	SCHNELL CAT6 S/FTP PATCH CORD 2 MTR GREY	PVC/LSZH
SCZ-5010C6PCS03GY	SCHNELL CAT6 S/FTP PATCH CORD 3 MTR GREY	PVC/LSZH
SCZ-5010C6PCS05GY	SCHNELL CAT6 S/FTP PATCH CORD 5 MTR GREY	PVC/LSZH
SCZ-5010C6PCS10GY	SCHNELL CAT6 S/FTP PATCH CORD 10 MTR GREY	PVC/LSZH
SCZ-5010C6PCS15GY	SCHNELL CAT6 S/FTP PATCH CORD 15 MTR GREY	PVC/LSZH
SCZ-5010C6PCS20GY	SCHNELL CAT6 S/FTP PATCH CORD 20 MTR GREY	PVC/LSZH
SCZ-5010C6PCS25GY	SCHNELL CAT6 S/FTP PATCH CORD 25 MTR GREY	PVC/LSZH
SCZ-5010C6PCS30GY	SCHNELL CAT6 S/FTP PATCH CORD 30 MTR GREY	PVC/LSZH

BK(Black)
  WT(White)
  GY(Grey)
  BL(Blue)
  RD(Red)
  PK(Pink)
  PL(Purple)
  GR(Green)
  YL(Yellow)
  OR(Orange)