



CATEGORY 6 SF/UTP CABLE

High Performance LAN Cable – Double Shielded (SF/UTP)

APPLICATION

- Horizontal cabling for LAN systems
- Industrial, factory and EMI environments
- Suitable for indoor installation

STANDARDS

- TIA/EIA-568-C.2
- ISO/IEC 11801
- GB 50311-2007
- YD/T 926.2-2009
- RoHS Compliant

FEATURES

- 250 MHz bandwidth, supports 1 Gbps transmission
- OFC conductor with PE cross spline
- Aluminium foil + TC braid shielding (SF/UTP)
- EMI protection up to ~90 dB (≈25 dB higher than UTP)
- Suitable for high interference environments

CONSTRUCTION

Item	Specification
Conductor	23AWG Solid OFC
Insulation	PE
Separator	Cross Spline
Shield	Al-foil + TC Braiding
Sheath	PVC
Cable Diameter	7.8 ± 0.3 mm

ELECTRICAL PERFORMANCE

Parameter	Value
Bandwidth	250 MHz
Data Rate	1000 Mbps
Conductor Resistance	≤ 9.5 Ω/100m
Resistance Unbalance	≤ 2.5%
Capacitance	≤ 5.6 nF/100m

MECHANICAL & INSTALLATION

Item	Value
Bend Radius	≥ 8 x OD
Installation Tension	<110N (short), <20N (long)
Installation Temp	0 ~ 40°C
Operating Temp	-10 ~ 60°C

ORDER INFORMATION

Model No.	Description	Packing	Unit
CSK-C6SF-01	Cat.6 SF/UTP Cable	305m/Reel	Reel

PERFORMANCE TABLE – CAT6 SF/UTP (Class E)

Frequency Range: 1 – 250 MHz

Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB)	PSNEXT (dB)	RL (dB)
1	2	74	72	20
4	3.8	65.3	63.3	23
10	6	59.3	57.3	25
16	7.6	56.2	54.2	25
20	8.5	54.8	52.8	25
31.25	10.7	52.9	50.9	23.6
62.5	15.4	48.4	46.4	21.5
100	19.8	45.3	43.3	20.1
155	25	42.9	40.9	18.8
200	29	41.8	39.8	18
250	32.8	40.3	38.3	17.3