

LAN CABLE

CAT 6



Features

Compliant with:

- ANSI/TIA-568-C.2 6
- ISO/IEC 11801 Class E

Application :

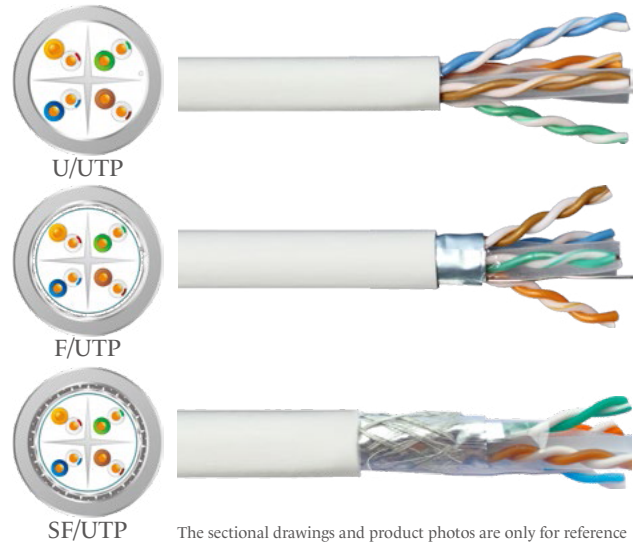
- 100Base-TX · 100Base-T · 100VG-AnyLAN
- 1000Base-T(Gigabit Ethernet) · 1000Base-TX
- ATM, specially designed for noisy environments

Reference Standards

- UL444 · UL1581 · UL1666 · IEC 60332-1
- IEC 60332-3-24 · EN50399

Testing Standards

- ISO/IEC11801 · ANSI/TIA-568-C.2



The sectional drawings and product photos are only for reference

Physical Parameters

Conductor	Solid Bare Copper, 23AWG
Insulation Materials	High Density Polyethylene
Insulation Diameter	1.02mm Nom.(solial insulation) 1.12mm Nom. (solial insulation)
Overall Shield	Aluminum Foiled
Double Overall Shield	Aluminum Foiled+ Braiding
Jacket Diameter	6.3mm Nom. (U/UTP) 7.4mm Nom. (F / UTP) 7.8mm Nom. (SF / UTP) (6.2/13.4)mm Nom. (U/UTP duplex) (7.4/15.2)mm Nom. (F/UTP duplex) (6.5/2.6)mm Nom. (U/UTP aerial)
Jacket Material	PVC or LSZH or PE (depending on the jackets) Compliant with RoHS and REACH
Operating Temperature	- 30 °C ~ + 50 °C (LSZH/PE) - 20 °C ~ + 50 °C (PVC)

Electrical Parameters (20°C)

Transmission Delay Skew	≤45ns / 100m
Transmission Speed	69%
DC Conductor Resistance	9.38Ω / 100m
DC Conductor Resistance Unbalance	≤ 5%
Unbalance to Ground Capacitance	Maximum 330pf / 100m

Frequency (MHz)	RL ≥dB	Attenuation ≤dB/100m	NEXT ≥dB/100m	Phase Delay ns/100m	PS NEXT ≥dB/100m	ELFEXT ≥dB/100m	PS ELFEXT ≥dB/100m
1	20.0	2.03	74.3	570.00	72.3	67.8	64.8
4.0	23.0	3.78	65.3	552.00	63.3	55.8	52.8
8.0	24.5	5.32	60.8	546.73	58.8	49.7	46.7
10.0	25.0	5.95	59.3	545.38	57.3	47.8	44.8
16.0	25.0	7.55	56.2	543.00	54.2	43.7	40.7
20.0	25.0	8.47	54.8	542.05	52.8	41.8	38.8
25.0	24.3	9.51	53.3	541.20	51.3	39.8	36.8
31.25	23.6	10.67	51.9	540.44	49.9	37.9	34.9
62.5	21.5	15.38	47.7	538.55	45.4	31.9	28.9
100	20.1	19.8	44.3	537.60	42.3	27.8	24.8
200	18.0	28.98	39.8	536.54	37.8	21.8	18.8
250	17.3	32.85	38.3	536.27	36.3	19.8	16.8
*350	16.3	39.8	36.1	535.92	34.1	16.4	13.9
*400	15.9	43.0	35.3	535.80	33.7	15.7	12.7
*450	15.5	46.3	34.5	535.70	32.5	14.7	11.7
*500	15.2	48.9	33.8	535.60	31.8	13.5	10.8
*550	14.9	51.8	33.2	535.54	31.2	12.9	9.9

Product Code Generator for Data Copper Cables:

SXC	CAT	AA	Type	BB	Package	CC	Jacket	D	Color	EE
	5e	5E	U/UTP	UU	Box 305 m	B1	PVC	A	Gray	01
	6	06	F/UTP	FU	Reel 500 m	R1	LSZH	B	Purple	02
	6A	6A	SF/UTP	SU	Reel 1000 m	R2	PE	C	Blue	03
	7	07	U/FTP	UF					Green	04
	7A	7A	F/FTP	FF					Yellow	05
	8	08	S/FTP	SF					Orange	06
									Red	07
									White	08
									Black	09

Product Code Format: SXC-AA-BB-CC-D-EE

Example:

Cat6, U/UTP, Box 305m, LSZH, Purple

Product Code: SXC-06-UU-B1-B-02