

## LAN CABLE

### S/FTP CAT 8



#### Features

##### Application :

- 10G / 25G / 40G Ethernet transmission
- Test bandwidth of up to 2000MHz

#### Reference Standards

- IEC 60332-1 · IEC 60332-3-24 · EN50399

#### Testing Standards

- ISO/IEC 11801-1 · ISO/IEC 11801-2 · IEC 61156-9
- EN 50173-1 · EN 50173-2 · EN 50288-12-1



The sectional drawings and product photos are only for reference

#### Physical Parameters

Conductor	Solid Bare Copper, 23AWG
Insulation Materials	Skin-foam-skin Polyethylene
Insulation Diameter	1.45mm Nom. (CAT 8.1) 1.53mm Nom. (CAT 8.2)
PIMF	Aluminum Foiled
Braided Shielding	Tinned copper coverage $\geq 60\%$
Jacket Diameter	8.0mm Nom. (CAT 8.1) 8.8mm Nom. (CAT 8.2)
Jacket Material	PVC or LSZH (depending on the jackets) Compliant with RoHS and REACH

#### Electrical Parameters (20°C)

Transmission Delay Skew	$\leq 25\text{ns} / 100\text{m}$
Transmission Speed	78%
DC Conductor Resistance	$6.92\Omega / 100\text{m}$
DC Conductor Resistance Unbalance	$\leq 2\%$
Unbalance to Ground Capacitance	$\leq 160\text{pf} / 100\text{m}$

Frequency (MHz)	ATT ≤dB/30m		RL ≥dB		NEXT ≥dB/100m		PS NEXT ≥dB		ACRF ≥dB/30m		PS ACRF ≥dB/30m	
	(CAT 8.1)	(CAT 8.2)	(CAT 8.1)	(CAT 8.2)	(CAT 8.1)	(CAT 8.2)	(CAT 8.1)	(CAT 8.2)	(CAT 8.1)	(CAT 8.2)	(CAT 8.1)	(CAT 8.2)
1	3.0	2.0	19.0	20.0	65.0	75.3	62.0	72.3	65.0	75.0	62.0	76.0
4	3.0	2.0	19.0	23.0	63.8	66.3	60.5	63.3	59.9	67.0	56.9	64.0
8	3.0	2.0	19.0	25.0	58.9	61.8	55.6	58.8	53.9	60.9	50.9	57.9
10	3.0	2.0	19.0	25.0	57.3	60.3	54.0	57.3	52.0	59.0	49.0	56.0
16	3.0	2.2	18.0	25.0	53.9	57.2	50.6	54.2	47.9	54.9	44.9	51.9
20	3.0	2.5	17.5	25.0	52.3	55.8	49.0	52.8	45.9	53.0	42.9	50.0
25	3.2	2.8	17.0	25.0	50.7	54.3	47.3	51.3	44.0	51.0	41.0	48.0
31.25	3.6	3.1	16.5	25.0	49.1	52.9	45.7	49.9	42.1	49.1	39.1	46.1
62.5	5.1	4.4	16.0	23.6	44.0	48.4	40.6	45.4	36.0	43.1	33.0	40.1
100	6.5	5.6	16.0	22.2	40.5	45.3	37.1	42.3	32.0	39.0	29.0	36.0
200	9.3	7.9	14.3	20.1	35.3	40.8	31.9	37.8	25.9	33.0	22.9	30.0
250	10.4	8.9	13.4	19.4	33.6	39.3	30.2	36.3	24.0	31.0	21.0	28.0
300	11.5	9.8	12.7	18.9	32.3	38.1	28.8	35.1	22.4	29.5	19.4	26.5
400	13.3	11.4	11.6	18.0	30.1	36.3	26.6	33.3	19.9	27.0	16.9	24.0
500	15.5	12.8	10.7	17.3	27.9	34.8	24.8	31.8	18.0	25.0	15.0	22.0
600	16.5	14.1	10.0	16.8	25.7	33.6	22.7	30.6	16.4	23.4	13.4	20.4
1000	22.0	18.6	8.0	15.2	19.3	30.3	16.5	27.3	12.0	19.0	9.0	16.0
1500	27.7	23.2	8.0	14.0	13.9	27.7	11.2	24.7	8.4	15.5	5.4	12.5
2000	32.7	27.2	8.0	13.1	9.8	25.8	7.3	22.8	5.9	13.0	2.9	10.0

### 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**