



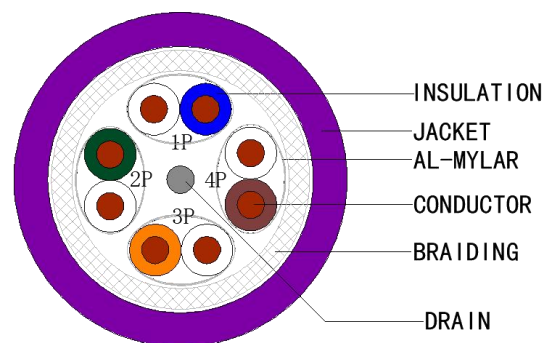
OPTERNET CABLES & WIRES

Category 7 Braiding Screened / Foiled Twisted Pair Cables (S/FTP CAT.7)

Model number: CAT7LSZH23AWGSFTPBC57-6903P

Opternet cables are the best twisted-pair cables in the market for transmitting data over local area networks (LANs). As streaming videos and multimedia over LAN are gaining CAT7 SFTP SERIES popularity, users demand faster data transmission and reduce waiting time. Opternet cables are ideal for simple, cost effective and high speed transmission performance. They support a higher signal- to-noise ratio, providing better reliability for current applications and higher data rates for future applications.

CAT7 cables reduce crosstalk and system noise. The superior insulation around the 23AWG copper wires at tributes to the increase performance. They cable transmit data at 1000Mbps (1Gigabit per second) with a frequency of 500MHz and suitable for 10BASE -T, 100BASETX fast ethernet and 1000BASE-T / 1000BASE-TX (10 GBase - T).



Construction

Conductor	Size	23AWG
	Material	Bare Copper
	Nom. O.D	0.570 ± 0.01 mm
Insulation	Material	FOPE
	Nom. O.D	1.36 ± 0.1 mm
	Average Thickness	0.39 mm
	Color	1P. White / Blue 2P. White / Green 3P. White / Orange 4P. White / Brown
	Filler	Material construction
Central Element	O.D	/
Inside-Tape Wrap	Material	AL-MYLAR
Drain Wire	Material	Tinned Copper
	Nom. O.D	1/0.400 ± 0.008mm
Outside Tape Wrap	Material	/
Braid Material	Material	LMS
	Nom. O.D	16/4/0.12mm
	Shielding Rate	≥30%
Jacket	Outer Sheath	LSZH
	Average Thickness	0.55 ± 0.05 mm
	Overall Diameter	7.50 ± 0.40 mm
	Color	Purple (RAL 4001)
Sheath Printing	Color	Black
	Marking	/

Mechanical Characteristics

Mechanical Characters	Sheath Normal Temp Tensile Strength (Mpa)	≥10.0
	Sheath Normal Temp Elongation (%)	≥125
	Insulation Normal Temp Tensile Strength (Mpa)	≥10.0
	Insulation Normal Temp Elongation (%)	≥200
	Aging Condition (°C×Hrs)	100°C±2°C, 24h, 7d
	Sheath After Aging Tensile Strength (Mpa)	≥8.0
	Sheath After Aging Elongation (%)	≥100
	Temperature Rating (°C)	-20°C — +75°C
	Cold Bend(-20±2°C×4h)	8×Cable O.D., No visible cracks

Transfer Characteristics

MHZ	RL ≥dB	ATT ≤dB	NEXT ≥dB	ACRF ≥dB	PS NEXT dB	PS ACRF dB
1	19.1	3.0	65.0	64.2	62.0	61.2
4	21.0	3.5	64.1	52.1	61.8	49.1
8	21.0	5.0	59.4	46.1	57.0	43.1
10	21.0	5.5	57.8	44.2	55.5	41.2
16	20.0	7.0	54.6	40.1	52.2	37.1
20	19.5	7.8	53.1	38.2	50.7	35.2
25	19.0	8.8	51.5	36.2	49.1	33.2
31.25	18.5	9.8	50.0	34.3	47.5	31.3
62.5	16.0	14.0	45.1	28.3	42.7	25.3
100	14.0	18.0	41.8	24.2	39.3	21.2
200	11.0	26.1	36.9	18.2	34.3	15.2
250	10.0	29.5	35.3	16.2	32.7	13.2
300	8.6	35.6	31.8	13.3	29.1	10.3
400	8.0	41.1	28.2	11.1	25.3	8.1
500	8.0	43.8	26.7	10.2	23.8	7.2

DATE	2026-01-31	EDITION	A	SPEC NO	TX-023A013102
CHECK		APPROVER		DESIGNER	LFZ