

CAT 6 ARMoured LSZH UTP NETWORK CABLE



APPLICATION

A twisted 4 pair high performance cable for data transmission in LAN Networks. Category 6 is recommended for all new installations, supports a frequency range of up to 250MHz and is designed for transmission speeds of up to 1 gigabit per second Ethernet. LSZH sheath for installations where fire, smoke emissions and toxic fumes create a potential risk to life and equipment.

CABLE STANDARDS

TIA/EIA-568
ISO/IEC 11801
TIA/EIA 568-C.2
YD/T1019

Pin Assignments T568A
T568B

CONSTRUCTION

Conductor: 23 AWG Class 1 solid copper conductor

Insulation: High Density Polyethylene (HDPE)

Armour: Galvanised Steel wire

Sheath: Low Smoke Zero Halogen (LSZH)

CHARACTERISTICS

Temperature Limits: Fixed: -20°C to +50°C

Minimum Bending Radius: As per cable manufacturer datasheet

CORE IDENTIFICATION

Pair 1: **Blue** Blue/White
Pair 2: **Orange** Orange/White
Pair 3: **Green** Green/White
Pair 4: **Brown** Brown/White

Sheath: **Violet** or **Black**

CAT 6 ARMoured LSZH UTP NETWORK CABLE- DIMENSIONS

CCCL CODE	NUMBER OF CONDUCTORS	NUMBER OF PAIRS	AWG STRANDING	WEIGHT (KG/305M BOX)	OVERALL DIAMETER (MM)
4UTPCAT6SWA	8	4	AWG 23	53	11.8 +/- 0.5mm

CAT 6 ARMoured LSZH UTP NETWORK CABLE – SIGNAL PERFORMANCE

FREQUENCY MHZ	ATTENUATION DB/100M	NEXT DB	PS-NEXT DB	RL DB	ELFEXT DB	PS-ELFEXT DB/100M	PHASE DELAY NS
1	2.03	74.3	72.3	20	67.8	64.8	570
4	3.78	65.3	63.3	23	55.8	52.8	552
8	5.32	60.8	58.8	24.5	49.7	46.7	546.73
10	5.95	59.3	57.3	25	47.8	44.8	545.38
16	7.55	56.2	54.2	25	43.7	40.7	543
20	8.47	54.8	52.8	25	41.8	38.8	542.05
25	9.51	53.3	41.3	24.3	39.8	36.8	541.2
31.25	10.67	51.9	49.9	23.6	37.9	34.9	540.44
62.5	15.38	47.7	45.4	21.5	31.9	28.9	538.55
100	19.8	44.3	42.3	20.1	27.8	24.8	537.6
200	28.98	39.8	37.8	18	21.8	18.8	536.54
250	32.85	38.3	36.3	17.3	19.8	16.8	536.27

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