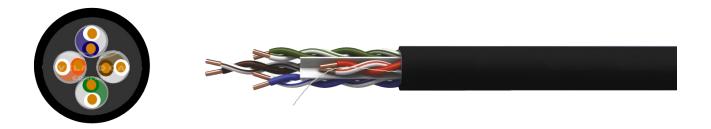# SUPERLEC DIRECT
ELECTRICAL SUPPLIES SINCE 1981

T: 0800 652 9229
W: www.superlecdirect.com
E: info@superlecdirect.com

CAT 6 DUCT GRADE 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. Duct Grade Polyethylene outer sheath

CABLE STANDARDS

TIA/EIA-568
ISO/IEC 11801
TIA/EIA 568-C.2
YD/T1019
Pin Assignments   T568A
                         T568B

CONSTRUCTION

Conductor: 23AWG Class 1 solid copper conductor

Insualtion: Super Polyethylene (SPE)

Sheath: Polyethylene (PE)

CHARACTERISTICS

Temperature Limits: Fixed: -20°C to +80°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:	**Black**	

T: 0800 652 9229
W: www.superlecdirect.com
E: info@superlecdirect.com

ELECTRICAL SUPPLIES SINCE 1981

CAT 6 DUCT GRADE UTP NETWORK CABLE-

BELDEN CODE	NUMBER OF CONDUCTORS	NUMBER OF PAIRS	AWG STRANDING	WEIGHT (KG/305MM BOX)	OVERALL DIAMETER (MM)
4UTPCAT6DUCT	8	4	AWG 23	18	6.3

CAT 6 DUCT GRADE 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	47.4	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