

COPPER CABLE

U/UTP CAT 6 EC VERIFIED – SOLID CONDUCTOR

This cable is compliant to ANSI/TIA-568-C.2, ISO/IEC 11801 and EN 50173

U/UTPCAT6Solid-01

CONSTRUCTION

CONDUCTOR	23 AWG solid bare copper
INSULATION	Polyolefin
PAIRS	4 Twisted pairs with cross divider
PAIR COLOUR CODE	Blue/White-Blue, Orange/White-Orange, Green/White-Green, Brown/White-Brown
SHEATH	PVC. Also available on request: 1) Low Smoke Zero Halogen (LSZH) 2) UV Resistant PVC (Black only)

ELECTRICAL CHARACTERISTICS STANDARD FOR CATEGORY 6

FREQUENCY MHZ	ATTENUATION dB/100m	NEXT dB	PSNEXT dB	ACR	PSACR	ELFEXT dB	PSELFEXT dB	RETURN LOSS
1	2.0	74.3	72.3	72.3	70.3	67.8	64.8	20.0
4	3.8	65.3	63.3	61.5	59.5	55.8	52.8	23.0
8	5.3	60.8	58.8	55.4	53.4	49.7	46.7	24.5
10	6.0	59.3	57.3	53.3	51.3	47.8	44.8	25.0
16	7.6	56.2	54.2	48.6	46.7	43.7	40.7	25.0
20	8.5	54.8	52.8	46.3	44.3	41.8	38.8	25.0
25	9.5	53.3	51.3	43.8	41.8	39.8	36.8	24.3
31.25	10.7	51.9	49.9	41.1	39.2	37.9	34.9	23.6
62.5	15.4	47.4	45.4	32	30	31.9	28.9	21.5
100	19.8	44.3	42.3	24.5	22.5	27.8	24.8	20.1
200	29.0	39.8	37.8	10.8	8.8	21.8	18.8	18.0
250	32.8	38.3	36.3	5.5	3.5	19.8	16.8	17.3

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ELECTRICAL CHARACTERISTICS @ 20°C

DC RESISTANCE	RESISTANCE UNBALANCE	MUTUAL CAPACITANCE @ 1 kHz	CAPACITANCE UNBALANCE	DELAY SKEW	VELOCITY OF PROPAGATION	CHARACTERISTIC IMPEDANCE
80 Ohms/km (Max)	2% (Max)	42 nF/km (Max)	1000 pF/km (Max)	450 nsec/km (Max)	0.68c	100 Ohms ±15% @ 1.0Mhz-100Mhz 100 Ohms ± (15+0.05(f-100)) @ 100Mhz-250Mhz

PHYSICAL PROPERTIES & PACKING

FIRE SAFETY RATING	OUTSIDE DIAMETER (NOM)	WEIGHT (kg/km)	TEMPERATURE RANGE	STANDARD PACKAGING
IEC 60332 Part 1	6.3mm	52.5	0°C to +50°C (Installation) -20°C to +70°C (Operational)	305m Easy Pull Box (14.34kg/box) (420mm x 420mm x 230mm) 500m Plastic Reels (22.5kg/reel) (370mm x 370mm x 210mm)

