

# COPPER CABLE

## U/UTP CAT 5e EC VERIFIED – SOLID CONDUCTOR

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

U-UTP CAT5e

### CONSTRUCTION

CONDUCTOR	24 AWG solid bare copper.
INSULATION	Polyolefin.
PAIRS	4 Twisted pairs.
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 – without sheath markings).

### ELECTRICAL CHARACTERISTICS STANDARD FOR CATEGORY 5e

#### STANDARD CAT 5e

FREQUENCY MHZ	ATTENUATION dB/100m	NEXT dB	PSNEXT dB	PSELFEXT dB
1	2.0	65.3	62.3	60.8
4	4.1	56.3	53.3	48.7
10	6.5	50.3	47.3	40.8
16	8.2	47.3	44.3	36.7
20	9.3	45.8	42.8	34.7
31.25	11.7	42.9	39.9	30.9
62.5	17.0	38.4	35.4	24.8
100	22.0	35.3	32.3	20.8

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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
93.8 Ohms/km (Max)	2% (Max)	56 nF/km (Max)	1000 pF/km (Max)	450 nsec/km (Max)	0.63 c	100 Ohms ±15% @ 1.0 Mhz-100Mhz

### PHYSICAL PROPERTIES & PACKING

FIRE SAFETY RATING	OUTSIDE DIAMETER (NOM)	WEIGHT (kg/km)	TEMPERATURE RANGE	STANDARD PACKAGING
IEC 60332 Part 1	5.1mm	30	0°C to +50°C (Installation) -20°C to +70°C (Operational)	305m Easy Pull Box (10kg/box) (350mm x 210mm x 350mm) 500m Plastic Reels (15kg/reel) (370mm x 185mm x 160mm)

