

# COPPER CABLE

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

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

U/UTPCAT5eFlex-01

### CONSTRUCTION

CONDUCTOR	24 AWG Flexible 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 NOTE: Low Smoke Zero Halogen (LSZH) is also available on request

### ELECTRICAL CHARACTERISTICS STANDARD FOR CATEGORY 5e

#### STANDARD CAT 5e

FREQUENCY MHZ	ATTENUATION dB/100m	NEXT dB	PSNEXT dB	PSELFEXT dB
1	2.4	65.3	62.3	60.8
4	4.9	56.3	53.3	48.7
10	7.8	50.3	47.3	40.8
16	9.9	47.3	44.3	36.7
20	11.1	45.8	42.8	34.7
31.25	14.1	42.9	39.9	30.9
62.5	20.4	38.4	35.4	24.8
100	26.4	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)	0.68c	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	5.6mm	34	0°C to +50°C (Installation) -20°C to +70°C (Operational)	305m Easy Pull Box (9.30kg/box) (360mm x 360mm x 210mm)  500m Plastic Reels (16.08kg/reel) (370mm x 370mm x 210mm)

