



CAT. 6 UTP 28AWG, 250MHz, SOFT PVC

Version: A/201802

STANDARD COMPLIANCE

UL LISTED: UL444

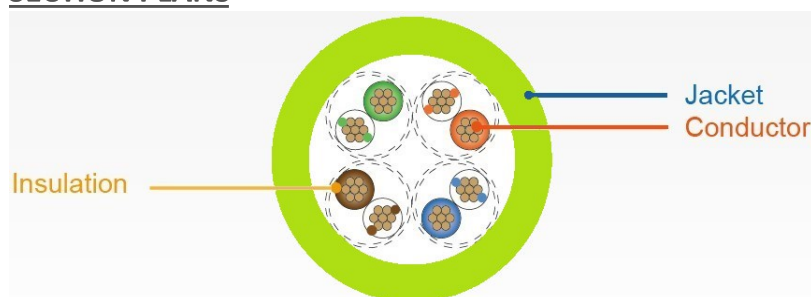
ANSI/TIA-568-C.2 CATEGORY 6: PATCH CABLE

IEC60332-1-2 FLAME TEST

RoHS COMPLIANCE FOR THE REQUIREMENT OF EUROPEAN UNION ISSUED DIRECTIVE 2011/65/EU



SECTION PLANS



CONSTRUCTION

		CAT. 6 UTP STRANDED
CONDUCTOR	MATERIAL & SIZE	BARE COPPER, 28AWG
	DIAMETER	7/0.12mm +/-0.003mm
INSULATION	MATERIAL	HDPE(CMI-75E)
	THICKNESS	MIN. AVERAGE THICKNESS: 0.13mm MIN.THICKNESS: 0.10mm
	COLOR CODE	Pair 1: Blue & White/Blue Pair 3: Green & White/Green Pair 2: Orange & White/Orange Pair 4: Brown & White/Brown
	DIAMETER	0.57 +/-0.03mm
	TENSILE STRENGTH	16.5 MPa / 2400 PSI
	ULTIMATE ELONGATION	≥300%
	JACKET	MATERIAL
	THICKNESS	MIN. AVERAGE THICKNESS: 0.585mm MIN.THICKNESS: 0.485mm
	OVERALL DIAMETER	3.8mm +/-0.3mm
	MINIMUM BENDING RADIUS	≥ 8 TIMES OF OVERALL DIAMETER
	MAXIMUM PULLING TENSION	MAX. 85N
	TENSILE STRENGTH	13.8MPa / 2000 PSI
	ULTIMATE ELONGATION	≥100%

ELECTRIC REQUIREMENT

	CAT. 6 UTP STRANDED
CHARACTERISTIC IMPEDENCE(Zo)	85 ~ 115Ω (1 ~ 250MHz)
DC. RESISTANCE CAPACITANCE UNBALANCE	5%
PAIR-TO-GROUND CAPACITANCE UNBALANCE	330 pF/100M MAX.
CONDUCTOR RESISTANCE	22.3Ω/ 100M 20°C MAX.
MUTUAL CAPACITANCE	5600 pF/100M MAX.
SPARK TEST	2.5KV
NOMINAL VELOCITY OF PROPAGATION (N.V.P.)	69%



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ENVIRONMENTAL CONDITION & USAGE

TEMPERATURE RANGE	SHIPPING & STORAGE	-20°C to 75°C
	INSTALLATION	0°C to 50°C
	OPERATION	-10°C to 60°C

TRANSMISSION REQUIREMENTS

Frequency MHz	Att. Stranded	Pr-Pr NEXT	PS NEXT	Return Loss	Pr-Pr ELFEXT	PS ELFEXT
1	5.0	74.3	72.3	20.0	67.8	64.8
10	11.1	59.3	57.3	25.0	47.8	44.8
20	15.2	54.8	52.8	25.0	41.8	38.8
31.25	20.8	51.9	49.9	23.3	37.9	34.9
62.5	28.5	47.4	45.4	20.7	31.9	28.9
100	38.8	44.3	42.3	19.0	27.8	24.8
200	43.8	39.8	37.8	16.4	21.8	18.8
250	55.4	38.3	36.3	15.6	19.8	16.8

Values show on tables above are for reference purpose only.

MARKING & PACKAGING

PACKAGING	/ BOX	/ BOX
APPROX. WEIGHT(kg)		
DIMENSION(mm)		
PACKAGES per PALLET		
MARKING		