



### CAT. 6A U/FTP 28AWG, 500MHz, LSZH

Version: A/201802

#### STANDARD COMPLIANCE

UL LISTED: UL 444

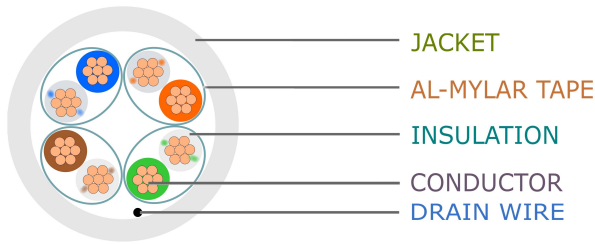
ANSI/TIA-568-C.2 CATEGORY 6A: PATCH CABLE

IEC60332-1-2 FLAME TEST

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



#### SECTION PLANS



#### CONSTRUCTION

		CATEGORY 6A U/FTP STRANDED
CONDUCTOR	MATERIAL & SIZE	BARE COPPER, 28AWG
	DIAMETER	7/0.12mm +/-0.003mm
INSULATION	MATERIAL	HDPE(CMI-75E)
	THICKNESS	MIN. AVERAGE THICKNESS: 0.28mm MIN.THICKNESS: 0.22mm
	COLOR CODE	Pair 1: Blue & White/Blue      Pair 3: Green & White/Green Pair 2: Orange & White/Orange      Pair 4: Brown & White/Brown
	DIAMETER	0.9 +/-0.03mm
	TENSILE STRENGTH	16.5 MPa / 2400 PSI
	ULTIMATE ELONGATION	≥300%
JACKET	MATERIAL	CMX-LSHF Compound
	THICKNESS	MIN. AVERAGE THICKNESS: 0.585mm MIN.THICKNESS: 0.485mm
	OVERALL DIAMETER	5.2mm +/-0.3mm
	MINIMUM BENDING RADIUS	≥ 8 TIMES OF OVERALL DIAMETER
	MAXIMUM PULLING TENSION	MAX. 85N
	TENSILE STRENGTH	8.3 MPa / 1200 PSI
	ULTIMATE ELONGATION	≥100%
SHIELDING	MATERIAL	Aluminum & Mylar Tape
DRAIN WIRE	MATERIAL	Tinned Copper

#### ELECTRIC REQUIREMENT

	CATEGORY 6A U/FTP STRANDED
CHARACTERISTIC IMPEDENCE(Zo)	85 ~ 115Ω (1 ~ 500MHz)
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.)	80%



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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)	MAX. ATTENUATION (dB/100m)	MIN, Pr-Pr NEXT (dB)	MIN. PSNEXT (dB)	MIN. RETURN LOSS (dB)
1	6.0	74.3	72.3	20.0
8	11.1	60.8	58.8	24.5
16	20.8	56.2	54.2	25.0
25	28.5	53.3	51.3	24.3
100	55.4	44.3	42.3	19.0
250	65.1	38.3	36.3	15.6
400	75.6	35.3	33.3	13.8
500	85.4	33.8	31.8	13.0

Values show on tables above are for reference purpose only.

### MARKING & PACKAGING

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