

CATEGORY 6A F/UTP 28AWG, 500MHz, SOFT PVC

PGS-FL6A8-31ST811X1

STANDARD COMPLIANCE

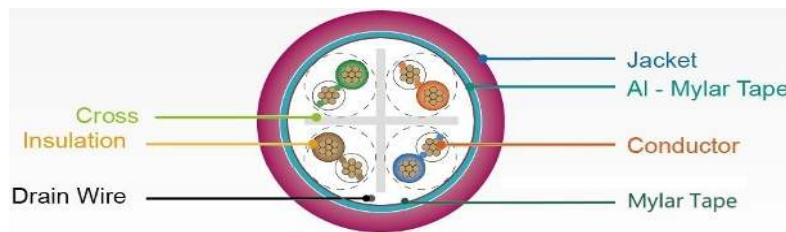
UL LISTED: UL 444

ISO/IEC 11801 CATEGORY 6A PATCH CABLE

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



SECTION PLAN



CONSTRUCTION

		CATEGORY 6A F/UTP STRANDED
CONDUCTOR	MATERIAL & SIZE	BARE COPPER, 28AWG
	DIAMETER	7/0.12mm +/- 0.003mm
INSULATION	MATERIAL	HDPE (CMI-75E)
	THICKNESS	MIN. AVERAGE THICKNESS: 0.132mm MIN. THICKNESS: 0.102mm
	COLOR CODE	Pair 1: Blue & White/Blue Pair 3: Green & White/Green Pair 2: Orange & white/C Pair 4: Brown & White/Brown
	DIAMETER	0.62 +/- 0.03mm
	TENSILE STRENGTH	16.5 Mpa/2400 PSI
	ULTIMATE ELONGATION	≥ 300%
JACKET	MATERIAL	PVC Compound (80P matt)
	THICKNESS	MIN. AVERAGE THICKNESS: 0.585mm MIN. THICKNESS: 0.485mm
	OVERALL DIAMETER	5.0mm +/- 0.3mm
	MINIMUM BENDING RADIUS	≥ 8 TIMES OF OVERALL DIAMETER
	MAXIMUM PULLING TENSION	MAX. 85N
	TENSILE STRENGTH	13.8 Mpa / 2000 PSI
	ULTIMATE ELONGATION	≥ 100%
SHIELDING	MATERIAL	Aluminum & Mylar Tape
DRAIN WIRE	MATERIAL	Tinned Copper

ELECTRIC REQUIREMENT

		CATEGORY 6A F/UTP 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	TYPE CM 4PR 28AWG PATCH CABLE 75°C (UL) E495789 P ISO/IEC 11801 Category 6A 550MHz F/UTP <i>PT</i> pactech FlexLite PGS-FL6A8-31ST811X1 STRANDED BATCH NO. RoHS	