

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

PGS-FL6A8-11ST341X1

STANDARD COMPLIANCE

UL LISTED: UL444

ISO/IEC 11801 CATEGORY 6A: PATCH CABLE

IEC 61156-5 FOR PATCH CABLE

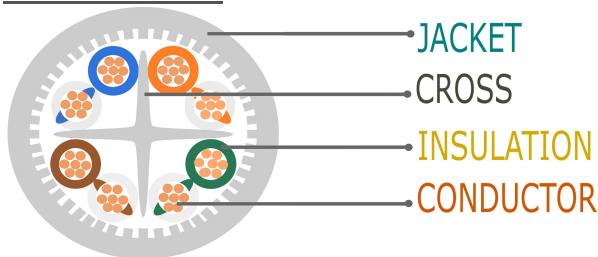
IEC60332-1-2 FLAME TEST

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

UL VERIFIED TO IEC 62821-1 LSHF(Low-Smoke-Halogen-Free) JACKET



SECTION PLANS



CONSTRUCTION

		CATEGORY 6A U/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	0.59 +/-0.03mm
	TENSILE STRENGTH	16.5 MPa / 2400 PSI
	ULTIMATE ELONGATION	≥300%
JACKET	MATERIAL	CMX-LSHF Compound
	THICKNESS	MIN. AVERAGE THICKNESS: 0.545mm MIN.THICKNESS: 0.450mm
	OVERALL DIAMETER	4.3mm +/-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%

ELECTRIC REQUIREMENT

	CATEGORY 6A U/UTP STRANDED
CHARACTERISTIC IMPEDENCE(Zo)	85 ~ 115Ω (1 ~ 500MHz)
DC. RESISTANCE CAPACITANCE UNBALANCE	3%
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.)	68.2%

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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 (CHANNEL TESTING ONLY)

Frequency MHz	Insertion loss Stranded	Return Loss	NEXT	ACRF	Prop. Delay	PS NEXT	PS ACRF
*1	6.5	20.0	74.3	67.8	570	72.3	64.8
*10	9.8	25.0	59.3	47.8	545	57.3	44.8
*20	12.4	25.0	54.8	41.8	542	52.8	38.8
*31.25	16.5	23.6	51.9	37.9	540	49.9	34.9
*62.5	21.8	21.5	47.4	37.9	539	45.4	28.9
*100	28.5	20.1	44.3	27.8	538	42.3	24.8
*200	41.2	18.0	39.8	21.8	538	37.8	18.8
*250	46.5	17.3	38.3	19.8	536	36.3	16.8
*300	51.3	16.8	37.1	18.3	536	35.1	15.3
*400	60.6	15.9	35.3	15.8	536	33.3	12.8
*500	67.9	15.2	33.8	13.8	536	31.8	10.8

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 CMX-LSHF 4PR 28AWG PATCH CABLE 75°C (UL) E495789 P ANSI/TIA -568-C.2 Category 6A 10G U/UTP LSZH PT pactech FlexLite PGS-FL6A8-11ST341X1 STRANDED BATCH NO. RoHS	