

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

PGS-FL6A8-11ST211X1

STANDARD COMPLIANCE

UL LISTED: UL444

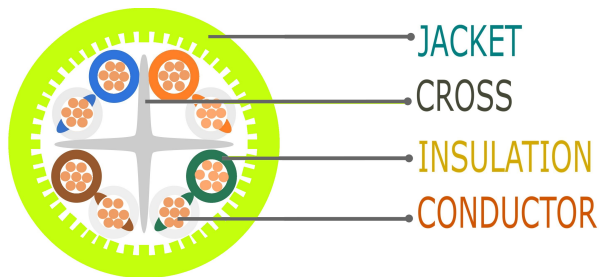
IEC60332-1-2 FLAME TEST

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

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



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	0.57 +/-0.03mm
	TENSILE STRENGTH	16.5 MPa / 2400 PSI
	ULTIMATE ELONGATION	≥300%
JACKET	MATERIAL	PVC Compound
	THICKNESS	MIN. AVERAGE THICKNESS: 0.545mm MIN.THICKNESS: 0.450mm
	OVERALL DIAMETER	4.5mm +/-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%

ELECTRIC REQUIREMENT

	CATEGORY 6A U/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.)	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 CM 4PR 28AWG PATCH CABLE 75°C (UL) E495789 P ANSI/TIA-568-C.2 Category 6A 10G U/UTP PT pactech FlexLite PGS-FL6A8-11ST211X1 STRANDED BATCH NO. RoHS	