

CAT. 6A S/FTP 26AWG, 500MHz, PVC

PGS-FL6A6-41ST111X1

STANDARD COMPLIANCE

UL LISTED: UL444

ISO/IEC 11801 CATEGORY 6A: PATCH CABLE

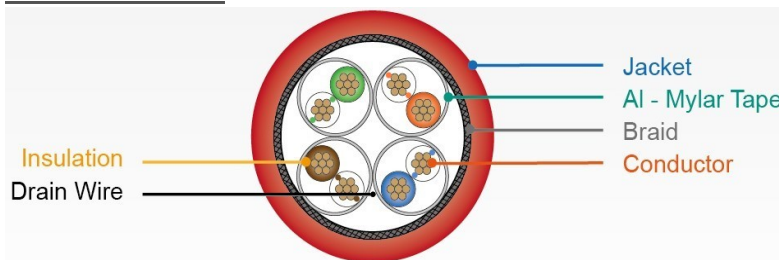
IEC 61156-5 FOR PATCH CABLE

IEC60332-1-2 FLAME TEST

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



SECTION PLANS



CONSTRUCTION

		CATEGORY 6A S/FTP STRANDED
CONDUCTOR	MATERIAL	BARE COPPER
	GAUGE	26AWG
INSULATION	MATERIAL	HDPE(CMI-75E)
	THICKNESS	MIN. AVERAGE THICKNESS: 0.38mm MIN.THICKNESS: 0.295mm
	COLOR CODE	Pair 1: Blue & White/Blue Pair 3: Green & White/Green Pair 2: Orange & White/Orange Pair 4: Brown & White/Brown
	DIAMETER	1.07 +/-0.03mm
	TENSILE STRENGTH	16.5 MPa / 2400 PSI
	ULTIMATE ELONGATION	≥300%
JACKET	MATERIAL	PVC Compound
	THICKNESS	MIN. AVERAGE THICKNESS: 0.585mm MIN.THICKNESS: 0.485mm
	OVERALL DIAMETER	6.6mm +/-0.3mm
	MINIMUM BENDING RADIUS	≥ 4TIMES OF OVERALL DIAMETER
	MAXIMUM PULLING TENSION	MAX. 110N
	TENSILE STRENGTH	13.8 MPa / 2000 PSI
	ULTIMATE ELONGATION	≥100%
SHIELDING	MATERIAL	Aluminum/Mylar Tape ; Tinned Copper Braid ; 60% Coverage
DRAIN WIRE	MATERIAL	Tinned Copper

ELECTRIC REQUIREMENT

	CATEGORY 6A S/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	14.0Ω/ 100M 20°C MAX.
MUTUAL CAPACITANCE	5600 pF/100M MAX.
SPARK TEST	2.5KV
NOMINAL VELOCITY OF PROPAGATION (N.V.P.)	76%

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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	Insertion loss (Stranded)	Return Loss	NEXT	ACRF	Prop. Delay	PS NEXT	PS ACRF
*1	4.5	20.0	74.3	67.8	570	72.3	64.8
*8	6.8	24.5	60.8	49.7	547	58.8	46.7
*10	7.5	25.0	59.3	47.8	545	57.3	44.8
*16	9.5	25.0	56.2	43.7	543	54.2	40.7
*25	11.9	24.3	53.3	39.8	541	51.3	36.8
*31.25	12.8	23.3	51.9	37.9	540	49.9	34.9
*62.5	18.5	20.7	47.4	37.9	539	45.4	28.9
*100	23.8	19.0	44.3	27.8	538	42.3	24.8
*200	34.8	16.4	39.8	21.8	538	37.8	18.8
*250	39.4	15.6	38.3	19.8	536	36.3	16.8
*300	44.1	14.9	37.1	18.3	536	35.1	15.3
*400	51.6	13.8	35.3	15.8	536	33.3	12.8
*500	56.4	13.0	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	PGS-FL6A6-41ST111X1 TYPE CM 4PR 26AWG PATCH CABLE 75°C (UL) E495789 P ISO/IEC 11801 Category 6A 10G S/FTP STRANDED PT pactech BATCH NO. RoHS	