

CAT. 6A S/FTP 28AWG, 600MHz, Soft PVC

PGS-FL6A8-41ST211X1

STANDARD COMPLIANCE

UL LISTED: UL444

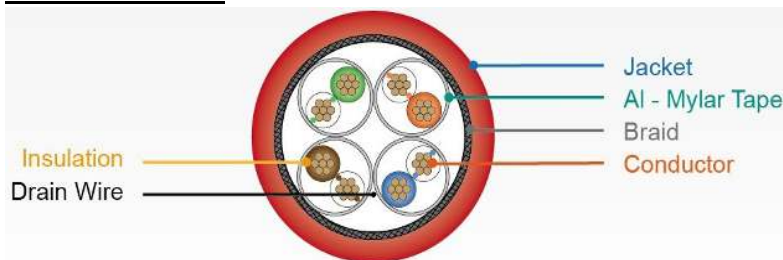
ISO/IEC 11801 CATEGORY 6A: PATCH CABLE

IEC 61156-5 FOR PATCH CABLE

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



SECTION PLANS



CONSTRUCTION

		CATEGORY 6A S/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
JACKET	THICKNESS	MIN. AVERAGE THICKNESS: 0.585mm MIN.THICKNESS: 0.485mm
	OVERALL DIAMETER	5.4mm +/-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
DRAIN WIRE	MATERIAL	Tinned Copper

ELECTRIC REQUIREMENT

	CATEGORY 6A S/FTP STRANDED
CHARACTERISTIC IMPEDENCE(Zo)	85~115Ω (1~600MHz)
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
600	90.2	31.9	30.1	12.3

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 600MHz S/FTP PT pactech FlexLite PGS-FL6A8-41ST211X1 STRANDED BATCH NO. RoHS	