

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

PGS-FL6A8-21SD341X1

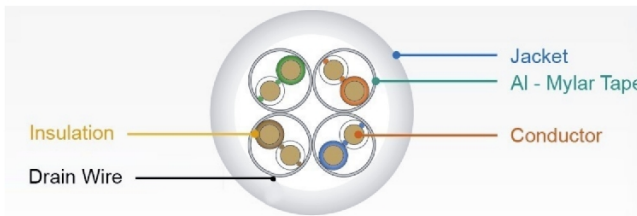
STANDARD COMPLIANCE

UL LISTED: UL444
 IEC 61156-5 FOR HORIZONTAL CABLE
 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

ANSI/TIA-568-C.2 CATEGORY 6A: HORIZONTAL CABLE
 IEC60332-1-2 FLAME TEST



SECTION PLANS



CONSTRUCTION

		CATEGORY 6A U/FTP SOLID
CONDUCTOR	MATERIAL & SIZE	BARE COPPER, 28AWG
	DIAMETER	1/0.32mm +/-0.003mm
INSULATION	MATERIAL	HDPE(CMI-75E)
	THICKNESS	MIN. AVERAGE THICKNESS: 0.26mm 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	0.8 +/-0.03mm
	TENSILE STRENGTH	16.5 MPa / 2400 PSI
	ULTIMATE ELONGATION	≥300%
JACKET	MATERIAL	CMX-LSHF Compound
	THICKNESS	MIN. AVERAGE THICKNESS: 0.585mm MIN.THICKNESS: 0.485mm
	OVERALL DIAMETER	5.2mm +/-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%
SHIELDING	MATERIAL	Aluminum/Mylar Tape
DRAIN WIRE	MATERIAL	Tinned Copper

ELECTRIC REQUIREMENT

	CATEGORY 6A U/FTP SOLID
CHARACTERISTIC IMPEDENCE(Zo)	85~115Ω (1~500MHz)
DC. RESISTANCE CAPACITANCE UNBALANCE	2%
PAIR-TO-GROUND CAPACITANCE UNBALANCE	330 pF/100M MAX.
CONDUCTOR RESISTANCE	23.6Ω/ 100M 20°C MAX.
MUTUAL CAPACITANCE	5600 pF/100M MAX.
SPARK TEST	2.5KV
NOMINAL VELOCITY OF PROPAGATION (N.V.P.)	74%

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

PGS-FL6A8-21SD341X1

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	3.4	74.3	72.3	20.0
8	6.4	60.8	58.8	24.5
16	9.1	56.2	54.2	25.0
25	11.4	53.3	51.3	24.3
100	23.8	44.3	42.3	20.1
250	39.4	38.3	36.3	17.3
400	51.6	35.3	33.3	15.9
500	56.4	33.8	31.8	15.2

Values show on tables above are for reference purpose only.

MARKING & PACKAGING

PACKAGING	500FT/ BOX	1000FT/ BOX
APPROX. WEIGHT(kg)		
DIMENSION(mm)		
PACKAGES per PALLET		
MARKING	TYPE CMX-LSHF 4PR 28AWG 75°C (UL) E495789 P ISO/IEC 11801 Category 6A 10G U/FTP LSZH PT pactech FlexLite PGS-FL6A8-21SD341X1 SOLID BATCH NO. RoHS 1000FT...2FT	