CAT. 6 UTP 24AWG, 250MHz, LSZH

PGS-FL64-11SD341X1

STANDARD COMPLIANCE

UL LISTED: UL444

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

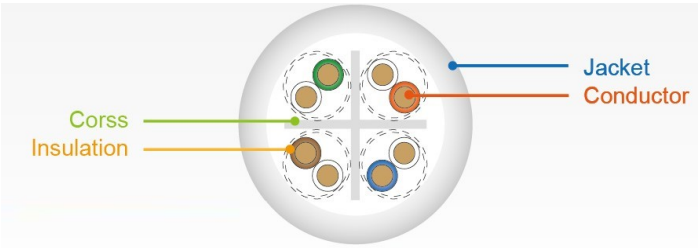
IEC 61156-5 FOR HORIZONTAL CABLE

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

		CAT. 6 UTP SOLID
CONDUCTOR	MATERIAL & SIZE	BARE COPPER, 24AWG
	DIAMETER	1/0.54mm +/-0.003mm
INSULATION	MATERIAL	HDPE(CMI-75E)
	THICKNESS	MIN. AVERAGE THICKNESS: 0.178mm MIN.THICKNESS: 0.153mm
	COLOR CODE	Pair 1: Blue & White/Blue Pair 3: Green & White/Green Pair 2: Orange & White/Orange Pair 4: Brown & White/Brown
	DIAMETER	0.93 +/-0.03mm
	TENSILE STRENGTH	16.5 MPa / 2400 PSI
	ULTIMATE ELONGATIO N	≥300%
JACKET	MATERIAL	CMX-LSHF Compound
	THICKNESS	MIN. AVERAGE THICKNESS: 0.585mm MIN.THICKNESS: 0.485mm
	OVERALL DIAMETER	6.1mm +/-0.3mm
	MINIMUM BENDING RADIUS	≥ 8TIMES OF OVERALL DIAMETER
	MAXIMUM PULLING TENSION	MAX. 110N
	TENSILE STRENGTH	8.3MPa / 1200 PSI
	ULTIMATE ELONGATION	≥100%

ELECTRIC REQUIREMENT

	CAT. 6 UTP SOLID
CHARACTERISTIC IMPEDENCE(Zo)	85～115Ω (1～250MHz)
DC. RESISTANCE CAPACITANCE UNBALANCE	5%
PAIR-TO-GROUND CAPACITANCE UNBALANCE	330 pF/100M MAX.
CONDUCTOR RESISTANCE	9.38Ω/ 100M 20°C MAX.
MUTUAL CAPACITANCE	5600 pF/100M MAX.
SPARK TEST	2.5KV
NOMINAL VELOCITY OF PROPAGATION (N.V.P.)	69%

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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	2.1	74.3	72.3	20.0
10	6.0	59.3	57.3	25.0
20	8.5	54.8	52.8	25.0
31.25	10.7	51.9	49.9	23.6
62.5	15.4	47.4	45.4	21.5
100	19.8	44.3	42.3	20.1
200	29.0	39.8	37.8	18
250	32.8	38.3	36.3	17.3

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	PGS-FL64-11SD341X1 TYPE CMX-LSHF 24AWG 4PR 75℃ (UL) E495789 P ETL VERIFIED to ANSI/TIA-568-C.2 UTP CAT.6 SOLID LSZH PT pactech BATCH NO. RoHS 1000FT...2FT	