

# CAT. 6 SF/UTP 26AWG, 250MHz, PVC

PGS-FL66-51ST111X1

## STANDARD COMPLIANCE

UL LISTED: UL444

ISO/IEC 11801:2002

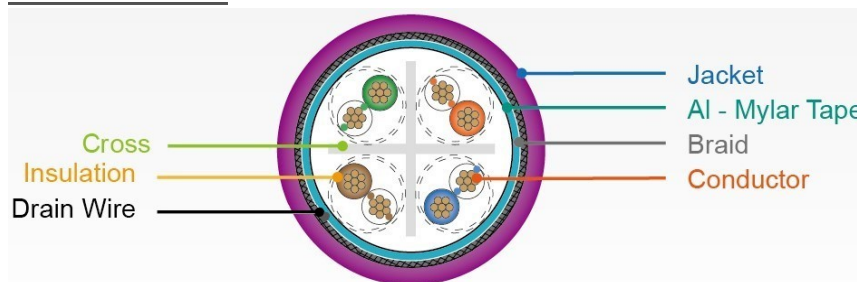
IEC 61156-6 FOR PATCH CABLE

IEC60332-1-2 FLAME TEST

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



## SECTION PLANS



## CONSTRUCTION

		CATEGORY 6 SF/UTP STRANDED
CONDUCTOR	MATERIAL & SIZE	BARE COPPER, 26AWG
	DIAMETER	7/0.162mm +/-0.003mm
INSULATION	MATERIAL	HDPE(CMI-75E)
	THICKNESS	MIN. AVERAGE THICKNESS: 0.25mm MIN.THICKNESS: 0.20mm
	COLOR CODE	Pair 1: Blue & White/Blue      Pair 3: Green & White/Green Pair 2: Orange & White/Orange      Pair 4: Brown & White/Brown
	DIAMETER	0.91 +/-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	6.8mm +/-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 ; 60% Coverage Tinned Copper Braid
DRAIN WIRE	MATERIAL	Tinned Copper

## ELECTRIC REQUIREMENT

	CATEGORY 6 SF/UTP STRANDED
CHARACTERISTIC IMPEDENCE(Zo)	85 ~ 115Ω (1 ~ 250MHz)
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	ATT. STRANDED	PR-PR NEXT	PS NEXT	PROP. DELAY NS	DELAY SKEW NS	RETURN LOSS	PR-PR ELFEXT	PS ELFEXT
*1	3.8	74.3	72.3	538.5	45	20.0	67.8	64.8
*10	10.9	59.3	57.3	545.0	45	25.0	47.8	44.8
20	13.8	54.8	52.8	539.9	45	25.0	41.8	38.8
31.25	17.7	51.9	49.9	540.2	45	23.3	37.9	34.9
62.5	25.6	47.4	45.4	540.8	45	20.7	31.9	28.9
100	35.0	44.3	42.3	541.4	45	19.0	27.8	24.8
200	40.9	39.8	37.8	542.5	45	16.4	21.8	18.8
250	48.5	38.3	36.3	543.0	45	15.6	19.8	16.8

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-FL66-51ST111X1 TYPE CM 4PR 26AWG PATCH CABLE 75°C (UL) E495789 P ISO/IEC 11801 SF/UTP CAT.6 STRANDED <b>PT</b> pactech BATCH NO. RoHS	