

CAT. 6 UTP 28AWG, 250MHz, COILED PVC

PGS-FL68-11ST842X1

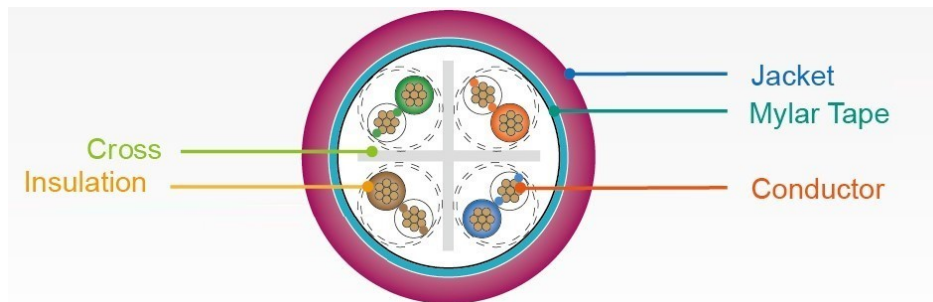
STANDARD COMPLIANCE

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

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



SECTION PLANS



CONSTRUCTION

		CAT. 6 UTP STRANDED
CONDUCTOR	MATERIAL & SIZE	BARE COPPER, 28AWG
	DIAMETER	7/0.12mm +/-0.003mm
INSULATION	MATERIAL	HDPE(CMI-75E)
	THICKNESS	MIN. AVERAGE THICKNESS: 0.13mm MIN.THICKNESS: 0.10mm
	COLOR CODE	Pair 1: Blue & White/Blue Pair 3: Green & White/Green Pair 2: Orange & White/Orange Pair 4: Brown & White/Brown
	DIAMETER	0.57 +/-0.03mm
	TENSILE STRENGTH	16.5 MPa / 2400 PSI
	ULTIMATE ELONGATION	≥300%
JACKET	MATERIAL	ELASTOMER PVC
	THICKNESS	MIN. AVERAGE THICKNESS: 1.35mm MIN.THICKNESS: 1.0mm
	OVERALL DIAMETER	5.1mm +/-0.3mm
	MINIMUM BENDING RADIUS	≥ 8 TIMES OF OVERALL DIAMETER
	MAXIMUM PULLING TENSION	MAX. 85N
	TENSILE STRENGTH	13.8MPa / 2000
	ULTIMATE ELONGATION	≥100%

ELECTRIC REQUIREMENT

	CAT. 6 UTP STRANDED
CHARACTERISTIC IMPEDENCE(z_0)	85~115Ω (1~250MHz)
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.)	69%

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ENVIRONMENTAL CONDITION & USAGE

TEMPERATURE RANGE	SHIPPING & STORAGE	-20°C to 70°C
	INSTALLATION	0°C to 50°C
	OPERATION	-10°C to 60°C

TRANSMISSION REQUIREMENTS

Frequency MHz	Att. Stranded	Pr-Pr NEXT	PS NEXT	Return Loss	Pr-Pr ELFEXT	PS ELFEXT
*1	5.0	74.3	72.3	20.0	67.8	64.8
*10	11.1	59.3	57.3	25.0	47.8	44.8
*20	15.2	54.8	52.8	25.0	41.8	38.8
*31.25	20.8	51.9	49.9	23.3	37.9	34.9
*62.5	28.5	47.4	45.4	20.7	31.9	28.9
*100	38.8	44.3	42.3	19.0	27.8	24.8
*200	43.8	39.8	37.8	16.4	21.8	18.8
*250	55.4	38.3	36.3	15.6	19.8	16.8

Values show on tables above are for reference purpose only.

MARKING & PACKAGING

PACKAGING	/ BOX	/ BOX
APPROX. WEIGHT(kg)		
DIMENSION(mm)		
PACKAGES per PALLET		
MARKING	4PR 28AWG PATCH CABLE 75°C UTP CAT.6 PT pactech PGS-FL68-11ST842X1 STRANDED BATCH NO. RoHS	