

CATEGORY 6 F/UTP 28AWG, 250MHz, Soft PVC

PGS-FL68-31ST811X1

STANDARD COMPLIANCE

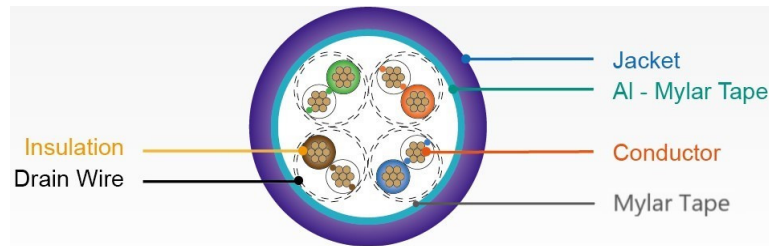
UL LISTED: UL 444

ISO/IEC 11801 CATEGORY 6 PATCH CABLE

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



SECTION PLAN



CONSTRUCTION

		CATEGORY 6 F/UTP STRANDED
CONDUCTOR	MATERIAL & SIZE	BARE COPPER, 28AWG
	DIAMETER	7/0.12mm +/- 0.003mm
INSULATION	MATERIAL	HDPE (CMI-75E)
	THICKNESS	MIN. AVERAGE THICKNESS: 0.132mm MIN. THICKNESS: 0.102mm
	COLOR CODE	Pair 1: Blue & White/Blue Pair 3: Green & White/Green Pair 2: Orange & white/C Pair 4: Brown & White/Brown
	DIAMETER	0.6 +/- 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	4.0mm +/- 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	Aluminum & Mylar Tape ; Mylar Tape
DRAIN WIRE	MATERIAL	Tinned Copper

ELECTRIC REQUIREMENT

		CATEGORY 6 F/UTP STRANDED
CHARACTERISTIC IMPEDANCE (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.)		80%

CATEGORY 6 F/UTP 28AWG, 250MHz, Soft PVC

PGS-FL68-31ST811X1

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

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 F/UTP Cat. 6 <i>PT</i> pactech FlexLite PGS-FL68-31ST811X1 STRANDED BATCH NO. RoHS	