

# CAT. 6 UTP 28AWG, 250MHz, PVC, RIBBON X4

PGS-FL68-14SD112X1

## STANDARD COMPLIANCE

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

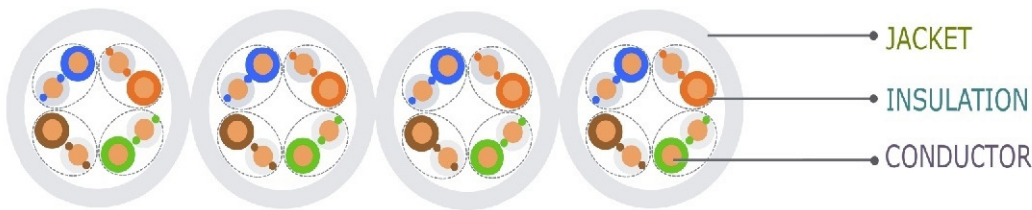
IEC 61156-5 FOR HORIZONTAL CABLE

IEC60332-1-2 FLAME TEST

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



## SECTION PLANS



## CONSTRUCTION

		CAT. 6 UTP SOLID
CONDUCTOR	MATERIAL & SIZE	BARE COPPER, 28AWG
	DIAMETER	1/0.32mm +/-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	0.55 +/-0.03mm
	TENSILE STRENGTH	16.5 MPa / 2400 PSI
	ULTIMATE ELONGATION	≥300%
JACKET	MATERIAL	75°C PVC Compound(CMI-80S)
	THICKNESS	MIN. AVERAGE THICKNESS: 0.585mm MIN.THICKNESS: 0.485mm
	OVERALL DIAMETER	3.8mm +/-0.3mm X 4C
	MINIMUM BENDING RADIUS	≥ 8 TIMES OF OVERALL DIAMETER
	MAXIMUM PULLING TENSION	MAX. 80N
	TENSILE STRENGTH	13.8MPa / 2000 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	23.6Ω/ 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	4.0	74.3	72.3	20.0
10	12.0	59.3	57.3	25.0
20	19.5	54.8	52.8	25.0
31.25	26.7	51.9	49.9	23.6
62.5	32.4	47.4	45.4	21.5
100	45.8	44.3	42.3	20.1
200	50.0	39.8	37.8	18
250	60.8	38.3	36.3	17.3

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	4PR 28AWG 75°C ANSI/TIA-568-C.2 UTP CAT.6 <i>Pt</i> pactech FlexLite Ribbon PGS-FL68-14SD112X1 SOLID BATCH NO. RoHS 328FT...2FT	