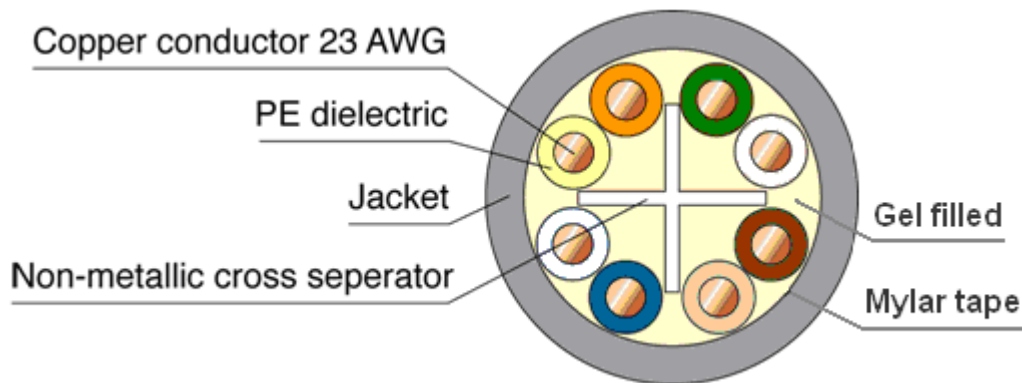


SPECIFICATION SHEET

PROPATCH Cat.6 U/ UTP Solid 4 Pair 23AWG Gelfilled Cable PE Jacket

	LAN Cabling Products Ltd. 22 D Industry road ,Penrose Auckland ,New Zealand PH: +649 579 9766 Email: SALES@LCP.CO.NZ Website : WWW.LCP.CO.NZ
GBL124	PROPATCH Cat.6 U/UTP Solid Gelfilled Cable Cable: 4 Pair 23AWG Solid---PE



Reference Standards	IEC 61156-5; ANSI/TIA-568-C.2
----------------------------	-------------------------------

Construction

Conductor	Solid plain annealed bare copper wire 0.55 +/- 0.015mm (AWG23)
Insulation	Polyethylene, 1.03 +/- 0.05 mm
Twisting	4 twisted pair, 2 single conductors paired, Twisted pair color code: 1: white / blue 2: white-orange / orange 3: white / green 4: white-brown / brown
Cable lay up	4 pairs with different pitches Non-metallic cross separator (spine)
Filler	Gel filled
Buffer	Mylar tape as buffer layer.
Outer Jacket / Color	PE / Black
Outer diameter	6.3 +/- 0.3 mm
Sheath Print	

Mechanical Properties

Bending radius	$\geq 4 \times OD$ without load $\geq 8 \times OD$ with load
Temperature range, during operation during installation	-20°C up to 60°C 0°C up to 50°C

Electrical Properties (at 20°C ± 5°C)

DC resistance	max. 9.38 Ω / 100m at 20°C
Resistance unbalance	max. 2% at 20°C
Insulation resistance (500 V)	min. 5000 MΩ/Km at 20°C
Mutual capacitance	nom. 5.6 nF / 100 m at 1 kHz
Capacitance unbalance (pair to ground)	max. 160 pF / 100 m at 1 kHz
Test voltage (DC, 1 min)	1 kV / 1 min

Transmission Performance acc. to IEC 61156-5 Cat.6 (at 20°C)

Frequency (MHz)	Impedance (Ω)	Attenuation (dB) Max.	NEXT (dB) Min.	PSNEXT (dB) Min.	ELFEXT (dB) Min.	PSELFEXT (dB) Min.
4	100 ± 15	3.8	66.3	63.3	56.0	53.0
10		6.0	60.3	57.3	48.0	45.0
16		7.6	57.2	54.2	43.9	40.9
20		8.5	55.8	52.8	42.0	39.0
31.25		10.7	52.9	49.9	38.1	35.1
62.5		15.5	48.4	45.4	32.1	29.1
100	100 ±22	19.9	45.3	42.3	28.0	25.0
125		22.5	43.8	40.8	26.1	23.1
200		29.1	40.8	37.8	22.0	19.0
250		33.0	39.3	36.3	20.0	17.0

Frequency (MHz)	Return Loss (dB) Min.	Propagation Delay (ns) Max.	Delay Skew (ns) Max.
4	23.0	552.0	45
10	25.0	545.4	
16	25.0	543.0	
20	25.0	542.0	
31.25	23.6	540.4	
62.5	21.5	538.6	
100	20.1	537.6	
125	19.4	537.2	
200	18.0	536.6	
250	17.3	536.3	

Order Information:

Item Number	Jacket Type	Item Description