

PROPATCH Network Solution

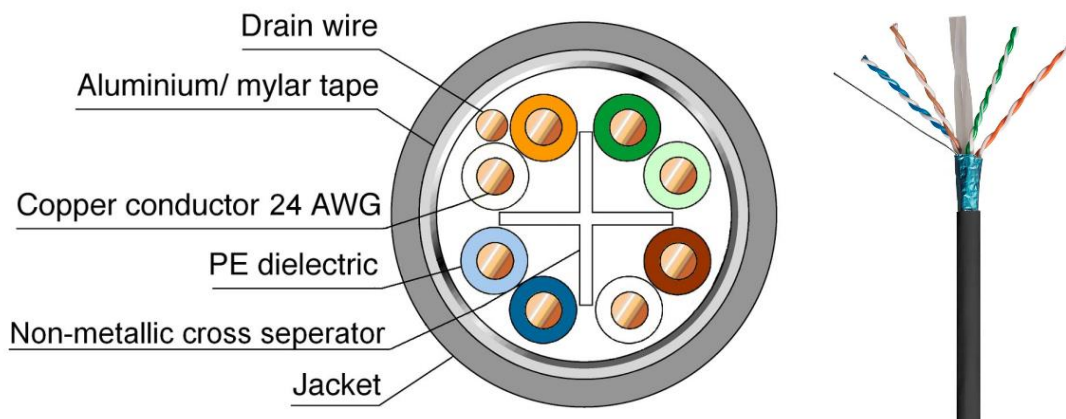
PROPATCH CAT6A F/UTP 4 Pair Cable 25 Year Systems Performance Warranty Product

Data Sheet

MADE IN TAIWAN

PROPATCH Cat 6A FTP Shielded cable will deliver the best performance when used with RJ45 Shielded or Unshielded keystone jacks to give highest margins over Category 6A TIA EIA 568 and ISO 11801 and EN 50173 Class EA standards.

The PROPATCH Shielded Cable has got PE jacket and cable sheath has length marking which is easy and convenient for the installer and gives a clear identification of cable and link lengths.



Reference Standards

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

Construction

Conductor	Solid plain annealed bare copper wire 0.55 +0/-0.015 mm (AWG24)
Insulation	Orange, Brown pair Polyethylene, 1.14 +/-0.05 mm Blue, Green pair Foam PE, 1.11 +/-0.05 mm
Twisting	4 twisted pair, 2 cores to the pair, Twisted pair color code: 1: white / blue 2: white-orange / orange 3: white / green 4: white-brown / brown
Cable lay up	1. 4 pairs with different pitches 2. Non-metallic cross separator (spine)
Shielding	1. Drain wire (26AWG) 2. Mylar tape laminated with aluminum foil as shield, with foil facing inside.
Outer diameter	7.0 +/-0.3 mm

Supplied By: LAN cabling Products Ltd NZ/AUS/Fiji
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Mechanical Properties

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

Electrical Properties (at 20°C $\pm$ 5°C)

DC resistance	max. 9.38 Ω / 100 m at 20 °C
Resistance unbalance	max. 2 % at 20 °C
Insulation resistance (500V)	min. 5000 M Ω /Km at 20 °C
Mutual capacitance	nom. 5.1 nf / 100 m at 1 kHz
Capacitance unbalance (pair to ground)	max.160 pf / 100 m at 1 kHz
Nominal velocity of propagation	nom. 67 %
Test voltage (DC, 1 min)	1 kV / 1 min

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

Frequency (MHz)	Attenuation (dB) Max.	NEXT (dB) Min.	PSNEXT (dB) Min.	ACRF (dB) Min.	PSACRF (dB) Min.
4	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	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
300	34.3	38.1	35.1	18.5	15.5
500	45.3	34.8	31.8	14	11

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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	536.5	
250	17.3	536.3	
300	17.3	536.1	
500	17.3	536.6	

Applications:

Data, IP Cameras, Access Points, POE

Related Connectors:

PROPATCH CAT6A Keystone Jacks
P/N:60001-C6ASTP

PROPATCH CAT6A RJ45 STP Field Termination Plug
P/N: MPC6ARJ45STP-FT

PROPATCH CAT6A RJ45 STP Shielded Plug
P/N: MPC6ARJ45SRWISTP-NEW



Ordering Information:

Material	P/N	Length	Marking	Jacket color
PE Jacket	60000-6A	Drum 305M	PROPATCH System Cat6 F/UTP 4 pair 24 AWG PE ISO/IEC11801 WWW.LCP.CO.NZ 305M 25 Year System Performance Warranty Products	Black



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