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cables

pro series

Industrial / Power / Data / Security / Fibre

Garland's Pro Series range is the experts' choice for high quality cables.

## Part No: UTPL6AHF

Description	Solid 23AWG PACW, Foam and Solid PE insulated, Twinned 4Pair, Cross-web Separator, Rip Cord, Overall LSZH Sheath, Cat6A UTP cable.
Applicable Standards	IEC61156-5, ISO/IEC 11801-2, AS/CA S-008, AS 1049
Suitable Applications	Used for horizontal and fixed wiring in Structured cabling and computer networks operating up to 10 Gbit on Class EA links. Suitable for 10BaseT, 100BaseT, 1000BaseT and 10GBaseT Ethernet applications. <sup>1</sup>

LAN Cable

### Cable Construction Drawing

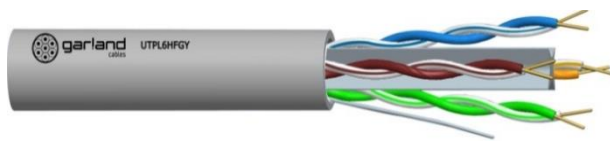
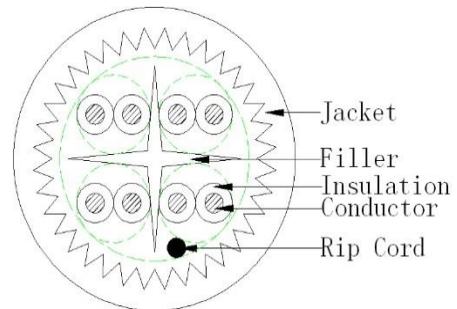


Image for illustration purposes only. See packing table for full details.

### Cable Construction Relative Parts



Cable Description				
Conductor	AWG	Stranding	Nominal Diameter(mm)	Material
	23	Solid	0.56 mm	PACW

<sup>1</sup> Transmission performance of installed Cat6A UTP cables is dependent on installation practices and may fall outside the limits specified in the standards. The installer/end user should satisfy themselves that adequate attention has been paid to the installation of cables intended for use in 1000BaseT applications or above so that system integrity is maintained.

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	Material	PE		
		Pair Number	Wire 1	Wire 2
Insulation	Colour	1	Blue	White + Blue Stripe
		2	Orange	White + Orange stripe
		3	Green	White + Green stripe
		4	Brown	White + Brown stripe
	Nominal Diameter:	1.02 mm		
	Nominal Thickness:	0.23 mm		
Twinning	Twinning Direction:	LH or "S" direction		
	Maximum Twinning Lay:	< 25 mm		
Cabling	Cabling Direction:	LH or "S" direction		
	Cabling Lay:	< 300 mm		
	Fillers	Separator placed in the centre of the cable to keep the four pairs separated		
Sheath	Material :	75C rated LSZH		
	Colour :	Black		
	Nominal Overall Diameter:	7.2 mm		
	Average Wall Thickness:	0.5 – 1.0 mm		

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Electrical Properties	
Conductor DC Resistance @ 20°C	≤ 7.32 Ω/100m
DC Conductor resistance unbalanced	< 5% in any two conductors within a pair per ASTM D-4566 or < 2.5% in any two conductors within a pair as per IEC 61156-1
Nominal Velocity of Propagation	65%
Characteristic Impedance	100 ± 15Ω (1 – 250 MHz) 100 ± 22Ω (250 – 500 MHz)

Transmission Table						
Frequency (MHz)	RL (dB)	IL (dB/100m)	NEXT (dB)	PSNEXT (dB)	ACRF or ELFEXT (dB)	PSACRF or PSELFEXT (dB)
1	20.0	2.0	74.3	72.3	68.0	65.0
4	23.0	3.8	66.3	63.3	56.0	53.0
10	25.0	5.9	60.3	57.3	48.0	45.0
16	25.0	7.5	57.2	54.2	43.9	40.9
20	25.0	8.4	55.8	52.8	42.0	39.0
31.25	23.6	10.5	52.9	49.9	38.1	35.1
62.5	21.5	15.0	48.4	45.4	32.1	29.1
100	20.1	19.1	45.3	42.3	28.0	25.0
200	18.0	27.6	40.8	37.8	22.0	19.0
250	17.3	31.1	39.3	36.3	20.0	17.0
300	17.3	34.3	38.1	35.1	18.5	15.5
500	17.3	45.3	34.8	31.8	14.0	11.0

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Mechanical Properties	
Operating Temperature Range	-15 to 75°C
Max. Recommended Pulling Tension	126N
Min. Bend Radius (install)	65mm
Approximate Mass	5.6 kg/100m

### Packing Table

SKU	Jacket Colour	Length (Metres)	Pack Type	Reel/Spool Size	Reels or Pull Boxes per Pallet
UTPL6AHFBL305	Blue	305	Plywood Reel	F50 x W23 cm	16
UTPL6AHFBK305	Black	305	Plywood Reel	F50 x W23 cm	16
UTPL6AHFBK500	Black	500	Plywood Reel	F50 x W23 cm	16
UTPL6AHFGY305	Grey	305	Plywood Reel	F50 x W23 cm	16
UTPL6AHFBN305	Brown	305	Plywood Reel	F50 x W23 cm	16
UTPL6AHFGN305	Green	305	Plywood Reel	F50 x W23 cm	16
UTPL6AHFOE305	Orange	305	Plywood Reel	F50 x W23 cm	16
UTPL6AHFRD305	Red	305	Plywood Reel	F50 x W23 cm	16
UTPL6AHFVT305	Violet	305	Plywood Reel	F50 x W23 cm	16
UTPL6AHFYW305	Yellow	305	Plywood Reel	F50 x W23 cm	16
UTPL6AHFPK305	Pink	305	Plywood Reel	F50 x W23 cm	16
UTPL6AHFWH305	White	305	Plywood Reel	F50 x W23 cm	16

- Madison reserves the right to make changes to the products described in this specification without prior notice
- All values subject to factory tolerances.
- All values are nominal unless otherwise stated.

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