

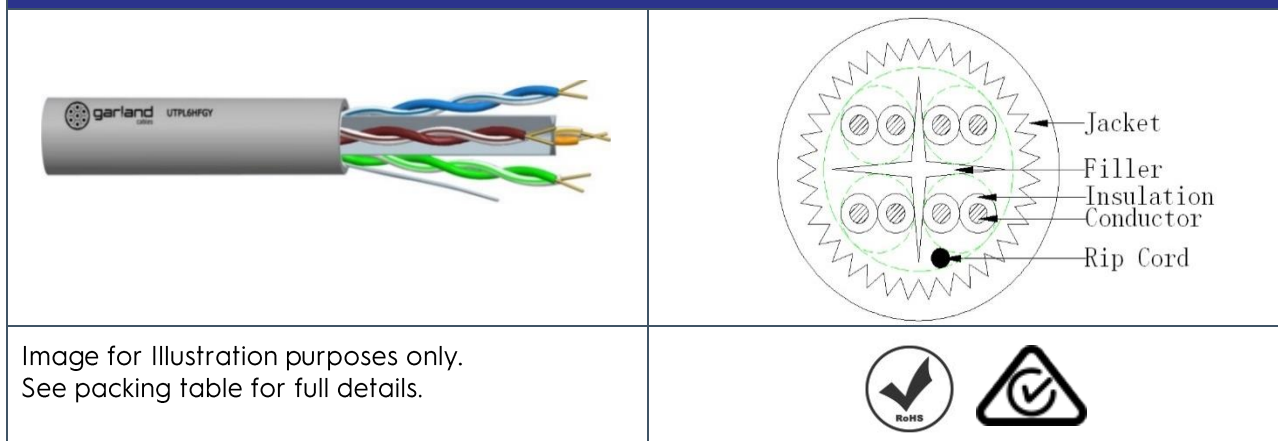
LAN Cable

Part No: UTPL6AHF

Communication / LAN / CAT6A - Cable

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 ¹ .

Images



Features

- Indoor Cable
- Flame Retardant
- LSZH

¹ 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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LAN Cable

Construction

Conductor	Material	PACW		
	Size	23 AWG		
	Stranding	Solid		
	Nominal Diameter (mm)	0.56		
Insulation	Material	PE		
	Nos of Pairs	4		
	Nominal Diameter (mm)	1.02		
	Nominal Thickness (mm)	0.23		
	Colour	Pair	Wire 1	Wire 2
	1	Blue	White + Blue Stripe	
	2	Orange	White+ Orange Stripe	
	3	Green	White + Green Stripe	
	4	Brown	White+ Brown Stripe	
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 center of the cable to keep the four pairs separated		
Sheath	Material	75C rated LSZH		
	Colour	Black		
	Average Wall Thickness (mm)	0.5 - 1.0		
	Nominal OD (mm)	7.2		

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

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Electrical Properties

Nominal Velocity of Propagation	65%
Characteristic Impedance(1-250MHz)	100 ± 15 Ω (1 - 250 MHz)
	100 ± 22 Ω (250 - 500 MHz)

Mechanical Properties

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

Fire and Flame Properties

Single Cable Flame Test	IEC 60332- 1
Light Transmittance	IEC 61034- 2 ≥ 60%
Acid Gas Generation	IEC 60754-1 & 2
	HCL content ≤ 5mg/g (5%)
	pH ≥ 4.3 Conductivity ≤ 10 microS/mm
AS/NZS Classification	RHE 1

Transmission Table

Freq (MHz)	4	10	16	31.25	62.5	100	200	250	300	500
RL (dB)	23.0	25.0	25.0	23.6	21.5	20.1	18.0	17.3	17.3	17.3
IL (dB/100m)	3.8	5.9	7.5	10.5	15.0	19.1	27.6	31.1	34.3	45.3
NEXT (dB)	66.3	60.3	57.2	52.9	48.4	45.3	40.8	39.3	38.1	34.8
PSNEXT (dB)	63.3	57.3	54.2	49.9	45.4	42.3	37.8	36.3	35.1	31.8
ACRF or ELFEXT (dB)	56.0	48.0	43.9	38.1	32.1	28.0	22.0	20.0	18.5	14.0

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LAN Cable

Transmission Table

Freq (MHz)	4	10	16	31.25	62.5	100	200	250	300	500
PSACRF or PSELFEXT (dB)	53.0	45.0	40.9	35.1	29.1	25.0	19.0	17.0	15.5	11.0

Supply Information

SKU	Jacket Colour	Length (Meters)	Pack Type	Reel/Spool Size	Reels per Pallet
UTPL6AHFBK305A	Black	305	Plywood Reel	W 17.8 x H 34.0 cm	16
UTPL6AHFBK500A	Black	305	Plywood Reel	W 17.8 x H 34.0 cm	16
UTPL6AHFBE305A	Blue	500	Plywood Reel	W 17.8 x H 34.0 cm	16
UTPL6AHFBN305A	Brown	305	Plywood Reel	W 17.8 x H 34.0 cm	16
UTPL6AHFGN305A	Green	305	Plywood Reel	W 17.8 x H 34.0 cm	16
UTPL6AHFGY305A	Grey	305	Plywood Reel	W 17.8 x H 34.0 cm	16
UTPL6AHFOE305A	Orange	305	Plywood Reel	W 17.8 x H 34.0 cm	16
UTPL6AHFPK305A	Pink	305	Plywood Reel	W 17.8 x H 34.0 cm	16
UTPL6AHFRD305A	Red	305	Plywood Reel	W 17.8 x H 34.0 cm	16
UTPL6AHFVT305A	Violet	305	Plywood Reel	W 17.8 x H 34.0 cm	16
UTPL6AHFWE305A	White	305	Plywood Reel	W 17.8 x H 34.0 cm	16
UTPL6AHFYW305A	Yellow	305	Plywood Reel	W 17.8 x H 34.0 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.

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