

# LAN Cable

**Part No:** FTPL6AHF

**Description**

Solid 23AWG PACW, Foam PE insulated, Twinned 4Pair, Cross-web Separator, Overall Aluminium laminate screen (Al facing in) with a TAC drain wire, Rip Cord, LSZH Sheath, Cat6A F/UTP cable.

**Applicable Standards**

ANSI/TIA 568-C.2, ISO/IEC 11801-2, AS/NZS 3080, AS/CA S-008, AS 1049, AS/NZS IEC 60332-1

**Suitable Applications**

Used for horizontal and fixed wiring in Structured cabling and computer networks operating up to 10 Gbit on Category 6A/Class E<sub>A</sub> links. Suitable for 10BaseT, 100BaseT, 1000BaseT and 10GBaseT Ethernet applications.

Not suitable for mains connection.

## Images

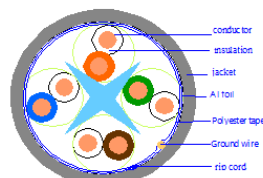
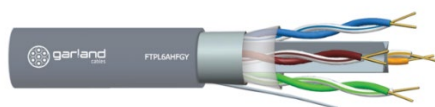


Image for Illustration purposes only



## Construction

<b>Conductor</b>	Material	Solid Plain Annealed Copper Wire
	Size	23 AWG
<b>Insulation</b>	Material	Foam PE
	Pairs	4
<b>Construction</b>	Colour Code	Blue and White/Blue, Orange and White/Orange Green and White/Green Brown and White/Brown
	Filler	Type
<b>Screen</b>	Material	AL/PET laminate foil
	Application	Overall Screen - Aluminium facing in
	Overlap	20%

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## Construction

<b>Sheath</b>	Drain Wire	26 AWG Tinned Annealed Copper
	Material	LSZH
	Colour	Refer to Supply Info Table
	Nominal Thickness (mm)	0.5
	Nominal OD (mm)	7.3

## Electrical Properties

<b>Voltage Rating</b>	80 V
<b>Nom. Conductor DC Resistance @ 20°C</b>	7.32 Ω/km
<b>Characteristic Impedance</b>	100±15Ω @ 1- 250 MHz 100±22Ω @ 250-500 MHz
<b>Velocity of Propagation</b>	Nom 65 %
<b>Propagation Delay @ 500MHz</b>	≤ 536 nsec/100 m
<b>Delay Skew</b>	≤ 45 nsec/100 m
<b>Max. Capacitance Conductor to Cond.</b>	56 pF/m
<b>Voltage Test: Conductor to core</b>	1.5kV dc/1 min

## Mechanical Properties

<b>Operating Temperature Range</b>	-15°C to +75°C (Operating) -0°C to +50°C (Installation)
<b>Max. Recommended Pulling Tension</b>	125 N
<b>Min. Bend Radius</b>	65 mm installation
<b>Approximate Mass</b>	5.3 kg/100 m
<b>Flame Performance</b>	AS/NZS IEC 60332.1

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## Nominal Transmission Properties

Freq. (MHz)	Insertion Loss (dB/100m)	NEXT (dB)	PSNEXT (dB)	Return Loss (dB)	ACRF (dB)	PSACRF (dB)
1	2.0	74.3	72.3	20.0	67.8	64.8
4	3.8	65.3	63.3	23.0	55.8	52.8
8	5.3	60.8	58.8	24.5	49.7	46.7
10	5.9	59.3	57.3	25.0	47.8	44.8
16	7.5	56.2	54.2	25.0	43.7	40.7
20	8.4	54.8	52.8	25.0	41.8	38.8
31.25	10.5	51.9	49.9	23.6	37.9	34.9
62.5	15.0	47.4	45.4	21.5	31.9	28.9
100	19.1	44.3	42.3	20.1	27.8	24.8
200	27.6	39.8	37.8	18.0	21.8	18.8
300	34.3	37.1	35.1	17.3	18.3	15.3
500	45.3	33.8	31.8	17.3	13.8	10.8

## Supply Information

Part No.	Pack Size	Jacket Colour	Pack Type	Reel/Spool Size
FTPL6AHFBK305	305	Black	Spool	TBA
FTPL6AHFBL305	305	Blue	Spool	TBA
FTPL6AHFBL500	500	Blue	Spool	TBA
FTPL6AHFBN305	305	Brown	Spool	TBA
FTPL6AHFGN305	305	Green	Spool	TBA
FTPL6AHFGY500	500	Grey	Spool	TBA
FTPL6AHFGY305	305	Grey	Spool	TBA
FTPL6AHFOG305	305	Orange	Spool	TBA

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## Supply Information

Part No.	Pack Size	Jacket Colour	Pack Type	Reel/Spool Size
FTPL6AHFPK305	305	Pink	Spool	TBA
FTPL6AHFRD305	305	Red	Spool	TBA
FTPL6AHFVT305	305	Violet	Spool	TBA
FTPL6AHFWH305	305	White	Spool	TBA
FTPL6AHFYE305	305	Yellow	Spool	TBA

- 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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