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

LAN Cable

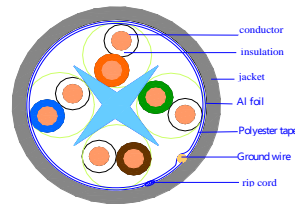
Part No: FTPL6AHFGY

Description	Solid 23AWG PACW, Foam and Solid 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
Suitable Applications	Used for horizontal and fixed wiring in Structured cabling and computer networks operating up to 10 Gbit on Class E _A links. Suitable for 10BaseT, 100BaseT, 1000BaseT and 10GBaseT Ethernet applications.

Cable Construction Drawing



Cable Construction Relative Parts



Drawing for illustration only.
For actual colours, refer to coding table

Cable Description				
Conductor	AWG	Stranding	Nominal Diameter(mm)	Material
	23	Solid	0.58 mm	PACW

Insulation				
Pair 1	Material	Foam PE		
	Colour	Pair Number	Wire 1	Wire 2
		1	Blue	White
	Nominal Diameter:	1.25 mm		
	Average Thickness:	0.33 mm		

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Pairs 2 - 4	Material		PE		
	Colour	Pair Number		Wire 1	Wire 2
		2	3	Orange	White + Orange stripe
		4	3	Brown	White + Green stripe
	Nominal Diameter:		1.17 mm		
	Average Thickness:		0.29 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		
Screen	Material		Aluminium Laminate		
	Orientation		Aluminium facing in and in contact with drain wire		
	Overlap		20% minimum		
Drain Wire	AWG	Stranding	Nominal Diameter(mm)	Material	
	26	Solid	0.40 mm	TACW	
Sheath	Material :		75C rated LSZH		
	Colour :		Refer to coding table		
	Nominal Overall Diameter:		7.2 mm		
	Average Wall Thickness:		0.52 mm		
Printing					
 GARLAND SCREENED CAT6A FTPL6AHF 4PR23AWG xxx M					
Where "xxx" = The length in meters					

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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(1-250MHz)	100±15Ω
Mutual Capacitance @ 1KHz	< 5.6nF/100m corrected to 20°C per ASTM D-4566
Capacitance Unbalance @ 20°C	< 300pF/100m corrected to 20°C per ASTM D-4566

Transmission Table¹

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	67.8	64.8
4	23.0	3.8	65.3	63.3	55.8	52.8
8	24.5	5.3	60.8	58.8	49.7	46.7
10	25.0	5.9	59.3	57.3	47.8	44.8
16	25.0	7.5	56.2	54.2	43.7	40.7
20	25.0	8.4	54.8	52.8	41.8	38.8
31.25	23.6	10.5	51.9	49.9	37.9	34.9
62.5	21.5	15.0	47.4	45.4	31.9	28.9
100	20.1	19.1	44.3	42.3	27.8	24.8
200	18.0	27.6	38.3	36.8	21.8	18.8
300	16.8	34.3	37.1	35.1	18.3	15.3
500	15.2	45.3	33.8	31.8	13.8	10.8

¹ This table is given as a guide. The transmission performance of the cable over the entire frequency range meets the formulae given in EIA/TIA 568-C.2. Testing is carried out on a network analyzer based system using no less than 201 points per decade.

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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

Coding Table

SKU	Jacket Colour	Length (Metres)	Pack Type	Reel/Spool Size	Reels per Pallet
FTPL6AHFBL305	Blue	305	Plywood Reel	F45 x W27 cm	16 or 12
FTPL6AHFBK305	Black	305	Plywood Reel	F45 x W27 cm	16 or 12
FTPL6AHFBN305	Brown	305	Plywood Reel	F45 x W27 cm	16 or 12
FTPL6AHFGN305	Green	305	Plywood Reel	F45 x W27 cm	16 or 12
FTPL6AHFGY305	Light Grey	305	Plywood Reel	F45 x W27 cm	16 or 12
FTPL6AHFGY500	Light Grey	500	Plywood Reel	F50 x W23 cm	16 or 12
FTPL6AHFOG305	Orange	305	Plywood Reel	F45 x W27 cm	16 or 12
FTPL6AHFPK305	Pink	305	Plywood Reel	F45 x W27 cm	16 or 12
FTPL6AHFRD305	Red	305	Plywood Reel	F45 x W27 cm	16 or 12
FTPL6AHFVT305	Violet	305	Plywood Reel	F45 x W27 cm	16 or 12
FTPL6AHFWH305	White	305	Plywood Reel	F45 x W27 cm	16 or 12
FTPL6AHFYE305	Yellow	305	Plywood Reel	F45 x W27 cm	16 or 12

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