



garland
cables

pro series

Industrial / Power / Data / Security / Fibre

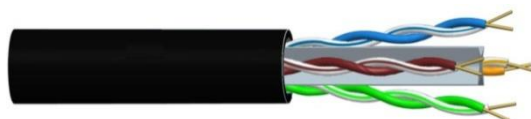
Garland's Pro Series range is the experts' choice for high quality cables.

LAN Cable

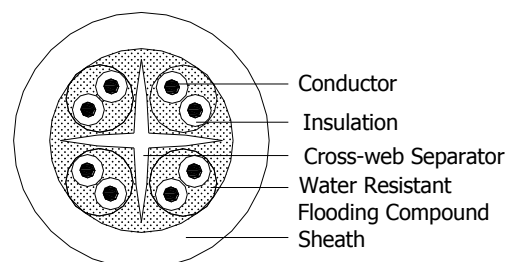
Part No: UTPL6JF

Description	Solid 23AWG PACW, UTP, 4Pairs, Cross-web Separator, PE Insulation, Water Resistant Flooding Compound, PE Sheath.
Applicable Standards	UL444, TIA/EIA 568 C.2, AS/ACIF S008, IEC60794-1-2-F5B
Suitable Applications	For communication network applications including needing up to gigabit networking speeds.

Cable Construction Drawing



Cable Construction Relative Parts



Cable Description

Conductor	AWG	Standing	Area(mm ²)	Diameter(mm)	Material
	23	1/0.57	0.255	0.57	PACW
Insulation	Pairs : 4		Material : PE		
	Colour :		Blue/White-Blue Stripe, Green/White-Green Stripe, Orange/White-Orange Stripe, Brown/White-Brown Stripe.		
	Nominal Thickness (mm) :		0.2		
	Nominal OD (mm) :		1.0		
Filler	Material : Cross-web Separator				
	Material : Water Resistant Flooding Compound				

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Sheath	Material : PE Colour : Black Nominal Thickness (mm) : 1.0 Nominal OD (mm) : 7.3
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Electrical Properties

Max. Conductor DC Resistance @ 20°C	73.16Ω/km
Max. DC Conductor resistance unbalanced	5%
Nominal Velocity of Propagation	64%
Characteristic Impedance(1-250MHz)	100±15Ω
Nom. Mutual Capacitance @ 1KHz	56 pF/m
Max. Capacitance Unbalance @ 20°C	330 pF/100m
Max. Propagation Delay Skew	45 ns/100m
Voltage Test : Core to Core	1.5 kV ac/1min
Voltage Test : Core to Sheath	3.0 kV ac/1min

Frequency (MHz)	Min. RL (dB/100m, 20°C)	Max. IL (dB/100m, 20°C)	Min. NEXT (dB/100m, 20°C)	Min. PSNEXT (dB/100m, 20°C)	Min. ELFEXT (dB/100m, 20°C)	Min. PS ELFEXT (dB/100m, 20°C)	Min. LCL (dB/100m, 20°C)	Max. PD (ns/100m, 20°C)	Min. TCL (dB)	Min. ELTCTL (dB)
1.0	20.0	2.03	74.3	72.3	67.8	64.8	40	570	40	35.0
4.0	23.01	3.78	65.27	62.27	55.76	52.76	40	-----	40	23.0
8.0	24.52	5.32	60.75	58.75	49.74	46.74	40	-----	40	16.9
10.0	25.0	5.95	59.3	57.3	47.8	44.8	40	545	40	15.0
16.0	25.0	7.55	56.24	54.24	43.72	40.72	38	-----	38	10.9
20.0	25.0	8.47	54.78	52.78	41.78	38.78	37	-----	37	9.0
25.0	24.32	9.5	53.33	51.33	39.84	36.84	36	-----	36	7.0
31.25	23.64	10.67	51.88	49.88	37.9	34.9	35.1	-----	35.1	5.5
62.5	21.54	15.38	47.36	45.36	31.88	28.5	32.0	-----	32.0	***
100	21.11	19.8	44.3	42.3	27.8	24.8	30.0	538	30.0	***
155	21.0	-----	-----	-----	-----	-----	-----	-----	-----	***

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200	18.0	28.98	39.78	37.78	21.78	18.78	27.0	-----	27.0	***
250	17.32	32.85	38.33	36.33	19.84	16.84	26.0	536	26.0	***

Mechanical Properties

Operating Temperature Range -25 to 70°C

Max. Recommended Pulling Tension 143N

Min. Bend Radius (install) 73mm

Approximate Mass 5.54kg/100m

Document Change Record	Issue	Date	Prepared by	Approved By
	02	19-08-2013	LLS	Pent
Change History	Issue	Change		

- 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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