



garland  
cables

pro series

Industrial / Power / Data / Security / Fibre

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

## Part No: **UTPL6JFNY**

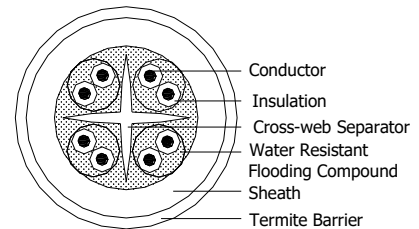
Description	Solid 23AWG PACW, UTP, 4 Twisted Pairs, Cross-web Separator, PE Insulation, Water Resistant Flooding Compound, UV stabilized PE Sheath, UV stabilized Nylon Termite Barrier.
Applicable Standards	AS/CA S008, TIA/EIA 568 C.2, IEC60794-1-2-F5B
Suitable Applications	For communication network applications needing up to gigabit networking speeds. Suitable for direct burial.  Not intended for direct connection to mains power

LAN Cable

### Cable Construction Drawing



### Cable Construction Relative Parts



### Cable Description

Conductor	AWG	Area(mm <sup>2</sup> )	Stranding	Diameter(mm)	Material
	23	0.255	1/0.555	0.555	PACW

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Insulation	Pairs :	4
	Material :	PE
	Colour :	Blue/White-Blue Stripe, Orange/White-Orange Stripe, Green/White-Green Stripe, Brown/White-Brown Stripe
	Nominal OD (mm) :	1.015
Filler	Material :	Cross-web Separator
	Material :	Water resistant flooding compound
Sheath	Material :	PE – UV Stabilized
	Colour :	Black
	Nominal Thickness (mm) :	1.0
	Nominal OD (mm) :	7.3
Termite Barrier	Material :	PA12 – UV Stabilized
	Colour :	Black
	Nominal Thickness (mm) :	0.4
	Nominal OD (mm) :	8.1

### Physical Characteristics

Insulation :

Elongation at Break Before Aging  $\geq 300\%$

Sheath :

Elongation at Break Before Aging  $\geq 400\%$

Termite Barrier :

Elongation at Break Before Aging  $\geq 280\%$

Tensile Strength Before Aging  $\geq 30\text{MPa}$

### Electrical Properties

Max. Conductor DC Resistance @ 20°C 73.9  $\Omega$ /km

Max. DC Conductor resistance unbalanced 5%

Min. Insulation Resistance @ 20°C 10,000 M $\Omega$ .km

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Nom. Mutual Capacitance @ 1KHz	56pF/m								
Max. Capacitance Unbalance @ 20°C	330pF/100m								
Nominal Velocity of Propagation	68%								
Voltage Test : Conductor to Core	2.0kV ac/1min								
Voltage Test : Core to Sheath	4.5kV ac/1min								
Characteristic Impedance(1-100MHz)	100±15Ω								
dB/100m 20°C									
MHz	RL	IL	NEXT	PSNEXT	ELFEXT	PSELFEXT	LCL	PD	PDS
0.150	***	***	86.7	84.7	***	***	***	***	***
0.772	***	1.8	76.0	74.0	70.0	67.0	***	***	***
1.0	20.0	2.03	74.3	72.3	67.8	64.8	40	570	45
4.0	23.01	3.78	65.27	62.27	55.76	52.76	40	***	***
8.0	24.52	5.32	60.75	58.75	49.74	46.74	40	***	45
10.0	25.0	5.95	59.3	57.3	47.8	44.8	40	545.38	45
16.0	25.0	7.55	56.24	54.24	43.72	40.72	38	***	45
20.0	25.0	8.47	54.78	52.78	41.78	38.78	37	***	45
25.0	24.32	9.5	53.33	51.33	39.84	36.84	36	***	45
31.25	23.64	10.67	51.88	49.88	37.9	34.9	35.1	***	45
62.5	21.54	15.38	47.36	45.36	31.88	28.84	32	***	45
100.0	21.11	19.8	44.3	42.3	27.8	24.8	30	537.6	45
155	21.00	***	***	***	***	***	***	***	***
200	18.00	28.95	39.78	37.78	21.78	18.78	27.0	***	45
250	17.32	32.85	38.33	36.33	19.84	16.84	26.0	536.28	45

### Mechanical Properties

Operating Temperature Range	-30 to 70°C
Max. Recommended Pulling Tension	135N
Min. Bend Radius (install)	81mm
Approximate Mass	6.7kg/100m

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#### Supply Information

Pack Size	Pack Type	Dimensions	Qty Per Carton	Cartons Per Pallet
305m	Wooden Reel	W40 x 26.8m		

- 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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