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cables

pro series

Industrial / Power / Data / Security / Fibre

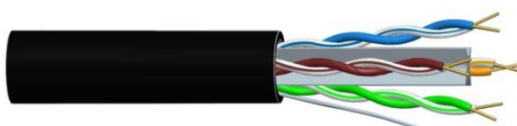
Garland's Pro Series range is the experts' choice for high quality cables.

## Part No: UTPL6PP

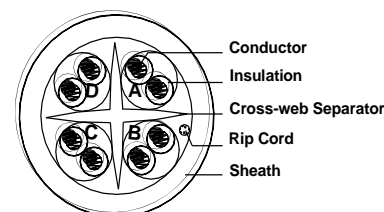
Description	Solid 23AWG PACW, UTP, 4Pairs, Cross-web Separator, Rip Cord, PE Insulation, PE Sheath, Category 6 Data Cable.
Applicable Standards	UL444, TIA/EIA 568 C.2, AS/ACIF S008
Suitable Applications	For communication network applications needing up to gigabit networking speeds. Designed for outdoor use. Not suitable for underground or indoor applications.

LAN Cable

### Cable Construction Drawing



### Cable Construction Relative Parts



### Cable Description

Conductor	AWG	Standing	Area(mm <sup>2</sup> )	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, Nominal Thickness (mm) : 0.21 Nominal OD (mm) : 1.0 Colour : Orange/White-Orange, Brown/White-Brown Stripe Nominal Thickness (mm) : 0.22 Nominal OD (mm) : 1.025				
Filler	Material : Cross-web Separator , Rip Cord				

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Sheath	Material : PE ( UV Stabilized) Colour : Black(RAL 9004) Nominal Thickness (mm) : 0.6 Nominal OD (mm) : 6.2
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### Electrical Properties

Max. Conductor DC Resistance @ 20°C	7.316Ω/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
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)	VOP %	Max. PD (ns/100m, 20°C)	Max. PDS (ns/100m, 20°C)
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	58.5	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	----	----	----
10.0	25.0	5.95	59.3	57.3	47.8	44.8	40	54.5	545	45
16.0	25.0	7.55	56.24	54.24	43.72	40.72	38	----	----	----
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)	VOP %	Max. PD (ns/100m, 20°C)	Max. PDS (ns/100m, 20°C)
20.0	25.0	8.47	54.78	52.78	41.78	38.78	37	----	----	----
25.0	24.32	9.5	53.33	51.33	39.84	36.84	36	----	----	----

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31.25	23.64	10.67	51.88	49.88	37.9	34.9	35.1	-----	-----	-----
62.5	21.54	15.38	47.36	45.36	31.88	62.5	32.0	-----	-----	-----
100	21.11	19.8	44.3	42.3	27.8	24.8	30.0	538	538	45
155	21.0	-----	-----	-----	-----	-----	-----	-----	-----	-----
200	18.0	28.98	39.78	37.78	21.78	18.78	27.0	-----	-----	-----
250	17.32	32.85	38.33	36.33	19.84	16.84	26.0	536	536	45

### Mechanical Properties

Operating Temperature Range -30 to 70°C

Max. Recommended Pulling Tension 142N

Min. Bend Radius (install) 62mm

Approximate Mass 4.0kg/100m

### Supply Information

Pack Size	Pack Type	Dimensions	Qty Per Carton	Cartons Per Pallet
305m	Plastic Reel	W36 x 26.6cm	1R	27

- 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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