



garland
cables

pro series

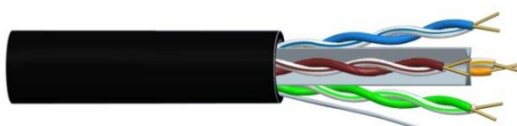
Industrial / Power / Data / Security / Fibre

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

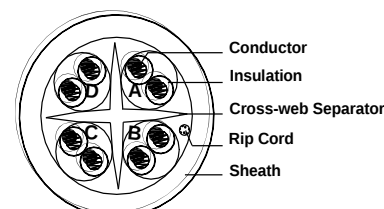
Part No: UTPL6PP

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 For communication network applications needing up to gigabit networking speeds.
Suitable Applications	Designed for outdoor use. Not suitable for underground or indoor applications.

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, 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