



garland  
cables

pro series

Industrial / Power / Data / Security / Fibre

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

## Part No: UTPL3xxxHF

Description	Solid 24AWG (0.5mm) PACW, PE insulated, Twisted Pairs, Unitized, Color Binder, Polyester TapeWrapped, Rip Cord, LSZH Sheath.
Applicable Standards	AS/AC S-008, AS 1049, ANSI/TIA 568-C.2, ISO/IEC 11801-2, AS/NZS 3080
Suitable Applications	For analog and digital telecommunications system upto 10 Mbits including 10BaseT

### Cable Construction Drawing

100 Pair cable shown.



Other pair counts may have different constructions.



Telephone Cable

### Cable Description

UTPL310HF has 1 x 10 pair unit using pairs 1 thru to 10

UTPL320HF has 1 x 20 pair unit using pairs 1 thru to 20

UTPL325HF has 1 x 25 pair unit using pairs 1 thru to 25

UTPL350HF has 5 x 10 pair units using pairs 1 thru to 10 with 5 different binder colours

UTPL3100HF has 4 x 25 pair units using pairs 1 thru to 25 with 4 different binder colours

Conductor	AWG	Standing	Diameter(mm)	Material
	24	Solid Copper	0.5	PACW
Insulation	Pairs :	10, 20, 25, 50 and 100 pair options available		
	Material :	PE Compound		
	Nominal Thickness (mm) :	0.2		
	Nominal OD (mm) :	0.9		

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Insulation Colour Code (5 x 5 Matrix System)										
Pair #	Wire 1	Wire 2		Pair #	Wire 1	Wire 2		Pair #	Wire 1	Wire 2
1	Blue	White		11	Blue	Black		21	Blue	Violet
2	Orange	White		12	Orange	Black		22	Orange	Violet
3	Green	White		13	Green	Black		23	Green	Violet
4	Brown	White		14	Brown	Black		24	Brown	Violet
5	Grey	White		15	Grey	Black		25	Grey	Violet
6	Blue	Red		16	Blue	Yellow				
7	Orange	Red		17	Orange	Yellow				
8	Green	Red		18	Green	Yellow				
9	Brown	Red		19	Brown	Yellow				
10	Grey	Red		20	Grey	Yellow				

Wrappings & Tapes	Unit Binder:	Unit 1 Blue, Unit 2 Orange, Unit 3 Green, Unit 4 Brown, Unit 5 Grey
	Overall Binder:	White
	Tape Wrapping :	Polyester Tape Coverage : 100%
	Rip Cord:	Yes
Sheath	Material :	LSZH
	Colour :	Pantone Yellow

Product Code	Number of Pairs	Nominal Diameter	Nominal Wall Thickness
UTPL310HF	10	7.0 mm	0.6 mm
UTPL320HF	20	9.4 mm	0.6 mm
UTPL325HF	25	10.2 mm	0.6 mm
UTPL350HF	50	17.5 mm	0.8 mm
UTPL3100HF	100	21 mm	0.9 mm

### Electrical Properties

Max. Conductor DC Resistance @ 20°C	93.8 Ω/km
Max. DC Conductor resistance unbalanced	5 %
Min. Insulation Resistance @ 20°C	1000 MΩ.km
Voltage Test Core to Core	1.5 kV ac/min

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### Electrical Properties

Nom. Mutual Capacitance @ 1KHz 52 pF/m

Max. Capacitance Unbalance @ 20°C 330 pF/100m

Characteristic Impedance(1-16MHz) 100±15 Ω

Frequency(MHz)	Min. SRL(dB/100m,20°C)	Max. IL(dB/100m,20°C)	Min. NEXT(dB/100m,20°C)
0.772	-----	2.2	43.0
1.0	12.0	2.6	41.3
4.0	12.0	5.6	32.3
8.0	12.0	8.5	27.8
10.0	12.0	9.7	26.3
16.0	10.0	13.1	23.2

### Mechanical Properties

Operating Temperature Range -15 to 70°C

### Supply Information

Product Code	Max. Pulling Tension	Min. Bend Radius	Approx. Mass	Standard Lengths
UTPL310HF	275 N	70 mm	6.9 kg/100 m	500 & 1000 m
UTPL320HF	550 N	95 mm	12.4 kg/100 m	1000 m
UTPL325HF	680 N	105 mm	14.9 kg/100 m	1000 m
UTPL350HF	1370 N	170 mm	33.0 kg/100 m	1000 m
UTPL3100HF	2750 N	210 mm	58.9 kg/100 m	500 m

Document Change Record	Issue	Date	Prepared by	Approved By
	02	11-03-20014	GK	KC
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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