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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.

LAN Cable

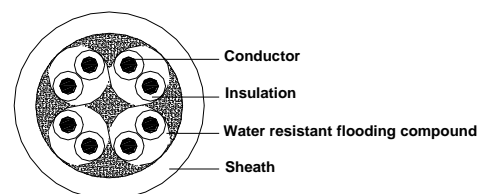
Part No: UTPL5EJF

Description	Solid 24AWG (0.5mm) PACW, UTP, 4Pairs, PE Insulation, Jelly Filled, PE Sheath, Cat5E cable for external applications including underground.
Applicable Standards	UL444, ANSI/TIA 568-C.2, ISO/IEC 11801, AS/NZS 3080, AS/CA S-008, AS 1049, IEC 60794-1-2
Suitable Applications	Used in Structured cabling for computer networks operating up to 100 Mbit on Class D links. Suitable for 10BaseT and 100BaseT Ethernet applications. Designed for direct burial applications

Cable Construction Drawing



Cable Construction Relative Parts



Cable Description

Conductor	AWG	Stranding	Area(mm ²)	Diameter(mm)	Material
	24	1/0.503	0.2	0.503	PACW
Insulation	Pairs : Material : Colour :		4 PE Blue/White-Blue Stripe, Green/White-Green Stripe, Orange/White-Orange, Brown/White-Brown Stripe		
	Nominal Thickness (mm) :		0.18		
	Nominal OD (mm) :		0.92		
Filler	Material : Water resistant flooding compound				

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Sheath	Material : PE Colour : Signal Black(RAL 9004) Nominal Thickness (mm) : 1.0 Nominal OD (mm) : 6.3
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Electrical Properties

Max. Conductor DC Resistance @ 20°C	93.8Ω/km
Max. DC Conductor resistance unbalanced	5%
Min. Insulation Resistance @ 20°C	10000MΩ.km
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
Max. Delay	538ns/100m @ 100MHz

Frequency (MHz)	0.772	1.0	4.0	8.0	10.0	16.0	20.0	25.0	31.25	62.5	100
Min. SRL (dB/100m, 20°C)	-----	23.0	23.0	23.0	23.0	23.0	23.0	22.0	21.0	18.0	16.0
Min. RL (dB/100m, 20°C)	-----	20.0	23.0	24.5	25.0	25.0	25.0	24.3	23.6	21.5	20.1
Max. IL (dB/100m, 20°C)	1.8	2.0	4.1	5.8	6.5	8.2	9.3	10.4	11.7	17.0	22.0
Min. NEXT (dB/100m, 20°C)	67.0	65.3	56.3	51.8	50.3	47.2	45.7	44.3	42.9	38.4	35.3
Min. PSNEXT (dB/100m, 20°C)	64.0	62.3	53.3	48.8	47.3	44.2	42.8	41.3	39.9	35.4	32.3
Min. ELFEXT (dB/100m, 20°C)	66.0	63.8	51.8	45.7	43.8	39.7	37.8	35.8	33.9	27.9	23.8
Min. PSELFEXT (dB/100m, 20°C)	63.0	60.8	48.8	42.7	40.8	36.7	34.7	32.8	30.9	24.9	20.8
Max. PD (ns/100m, 20°C)	-----	570	-----	-----	545	-----	-----	-----	-----	-----	538
Max. PDS (ns/100m, 20°C)	-----	45	-----	-----	45	-----	-----	-----	-----	-----	45

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Mechanical Properties	
Operating Temperature Range	-25 to 70°C
Max. Recommended Pulling Tension	111N
Min. Bend Radius (install)	63mm
Approximate Mass	4.15kg/100m
Sheath Printing	 GARLAND UTPL5EJF ISO/IEC 11801 & EN 50173 & TIA/EIA 568C.2 - Category 5e 24AWG X 4P MOISTURE PROTECTION

Supply Information				
Pack Size	Pack Type	Dimensions	Qty Per Carton	Cartons Per Pallet
305m	Wooden Reel	W34 x H24.8cm		
500m	Wooden Reel	W40 x H24.8cm		

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	01	06-12-2012	LLS	Pent
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