



garland
cables

pro series

Industrial / Power / Data / Security / Fibre

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

Part No: UTPL5EBK

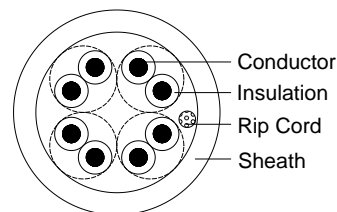
LAN Cable

Description	Solid 24AWG (0.5mm) PACW, UTP, 4Pairs, PE Insulation, Rip Cord, PVC Sheath, UL Listed & Verified Cat5E cable.
Applicable Standards	UL444, ANSI/TIA 568-C.2, ISO/IEC 11801, AS/NZS 3080, AS/CA S-008, AS 1049
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.

Cable Construction Drawing



Cable Construction Relative Parts



Cable Description

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

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Sheath	Material : PVC Colour : Signal Black(RAL 9004) Nominal Thickness (mm) : 0.64 Nominal OD (mm) : 5.4
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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	1000MΩ.km
Nom. Mutual Capacitance @ 1KHz	56Pf/m
Max. Capacitance Unbalance @ 20°C	330pF/100m
Nominal Velocity of Propagation	68%
Voltage Test : Conductor to Core	1.5kV ac/1min
Voltage Test : Core to Sheath	3.0kV 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 -15 to 70°C

Max. Recommended Pulling Tension 111N

Min. Bend Radius (install) 54mm

Approximate Mass 3.4kg/100m

Sheath Printing

 GARLAND UTPL5E - 24AWG 4 PAIR - E316183-MT
c(UL)us CMX 75°C - Verified (UL) CAT.5E ANSI/TIA-568C.2 - MM/YYYY - "Mmark"

Supply Information

Pack Size	Pack Type	Dimensions	Qty Per Carton	Cartons Per Pallet
305m	Reel Box	14.5 x 14.5 x 7.5"	1Box	45Box

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