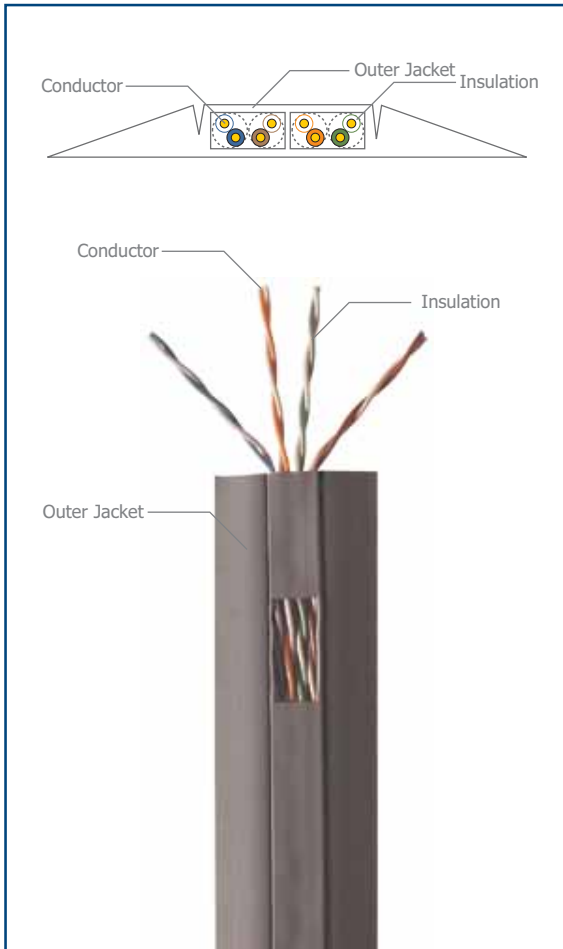


4PR 24AWG U/UTP Undercarpet CAT5E / Part No.: LN-D0424AU5E
Description

- Rated temperature: 75°C
- Reference Standard: UL Subject 444, EIA/TIA 568B.2 & ISO/IEC 11801
- Solid bare copper conductor
- Colour-coded PE insulation
- PVC or LSZH jacket
- Packaging: Reel

Application

- 100 Base-T4
- 100Base-TX
- 100VG-AnyLAN
- 1000Base-T
- 1000Base-TX
- 155Mbps ATM
- 622Mbps ATM

Product Figure


* Custom configuration is available upon request.

Physical Characteristics

Structure	Construction	U/UTP
	Number of Pairs	4 Pair
	AWG	24AWG
	Conductor Dimension (mm)	0.530 (24AWG)
Insulation	Solid or Stranded; Bare or Tinned	Solid bare copper
	Insulation material	HDPE, FRPE
	Insulation Dimension (mm)	0.92 (24AWG)
	Number Colour (Ring or Strip Marking)	1.White/Blue(Ring) & Blue 2.White/Orange(Ring) & Orange 3.White/Green(Ring) & Green 4.White/Brown(Ring) & Brown
Shield	Cross Filler	No
	Individual Shield & Material	No
	Outer Shield & Material	No
Outer Jacket	Drain Wire	No
	Outer Jacket Material	PVC or LSZH
	Outer Jacket Ripcord	Per customer request
Mechanical Characteristics	Overall Nominal Diameter (mm)	24AWG UTP nom: WxH = 30x3.4 mm
	Operating Temp. Range	-20~75°C
	Bulk Cable Weight (KG)	85KG (24AWG)
	Max. Recommended Pulling Tension	110N
	Min. Bend Radius (Install)	4 X O.D.
Electrical Characteristics	Flame Test	CMX, CM, CMG, CMR
	Nom. Mutual Capacitance @ 1kHz	≤ 5.6nF /100M
	Max. Capacitance Unbalance (pF/100m)	≤ 330pF/100M(Per TIA/EIA-568B.2) ≤ 160pF/100M(Per IEC 61156)
	Nominal Velocity of Propagation	65%
	Max. Delay Skew (ns/100m)	≤ 45ns /100M
	Max. Conductor DC Resistance @ 20 Deg. C	9.38Ω /100M(24AWG)
	Max. DC Resistance Unbalance @ 20 Deg. C	≤ 5%(Per TIA/EIA-568B.2) ≤ 2%(Per IEC 61156-5)
	Max. Insulation Resistance (MΩ/km)	5000
Max. Operating Voltage-UL	300V	



4PR 24AWG U/UTP Undercarpet CAT5E / Part No.: LN-D0424AU5E
TIA/EIA-568B.2 Electrical Characteristics

Frequency (MHz)	Impedance (Ohms)	ATT (dB/100m)	RL (dB Min)	NEXT (dB Min)	PSNEXT (dB Min)	ELFEXT (dB Min)	PSELFEXT (dB Min)	PD Max (ns/100m)	SKEW (ns/100m)	Hybrid PSNext (dB Min)
0.772	100 ± 15	1.8	19.4	67.0	64.0	66.0	63.0	575	45	65.0
1	100 ± 15	2.0	20.0	65.3	62.3	63.8	60.8	570	45	65.0
4	100 ± 15	4.1	23.0	56.3	55.3	51.7	48.7	552	45	59.3
8	100 ± 15	5.8	24.5	51.8	48.8	45.7	42.7	547	45	54.8
10	100 ± 15	6.5	25.0	50.3	47.3	43.8	40.8	545	45	53.3
16	100 ± 15	8.2	25.0	47.3	44.3	39.7	36.7	543	45	50.2
20	100 ± 15	9.3	25.0	45.8	42.8	37.7	34.7	542	45	48.8
25	100 ± 15	10.4	24.3	44.3	41.3	35.8	32.8	541	45	47.3
31.25	100 ± 15	11.7	23.6	42.9	39.9	33.9	30.9	540	45	45.9
62.5	100 ± 15	17.0	21.5	38.4	35.4	27.8	24.8	539	45	41.4
100	100 ± 15	22.0	20.1	35.3	32.3	23.8	20.8	538	45	38.3

IEC-61156-5 Electrical Characteristics

Frequency (MHz)	Impedance (Ohms)	ATT (dB/100m)	RL (dB Min)	NEXT (dB Min)	PSNEXT (dB Min)	ELFEXT (dB Min)	PSELFEXT (dB Min)	PD Max (ns/100m)	SKEW (ns/100m)
1	100 ± 15	-	-	-	-	64.0	61.0	570	45
4	100 ± 15	4.0	23.0	56.0	53.0	52.0	49.0	552	45
10	100 ± 15	6.3	24.5	50.0	47.0	45.9	42.9	545	45
16	100 ± 15	8.0	25.0	47.0	44.0	39.9	36.9	543	45
20	100 ± 15	9.0	25.0	46.0	43.0	38.0	35.0	542	45
31.25	100 ± 15	11.4	23.6	43.0	40.0	34.1	31.1	540	45
62.5	100 ± 15	16.5	21.5	38.0	35.0	28.1	25.1	539	45
100	100 ± 15	21.3	20.1	35.0	32.0	24.0	21.0	538	45

