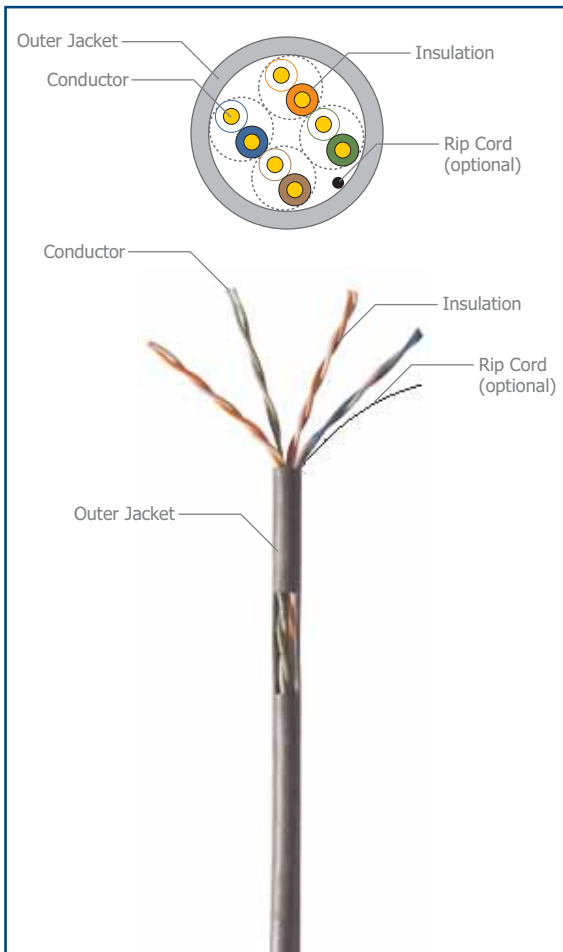


**4PR 24AWG U/UTP (CAT5E PREMIUM) / Part No.: LN-A0424AU5E**
**Description**

- Rated temperature: 75°C
- Reference Standard: UL Subject 444, EIA/TIA 568B.2 & ISO/IEC 11801
- Solid bare copper conductor
- Colour-coded PE insulation
- Rip cord (optional)
- PVC or LSZH jacket
- Packaging: Reelex Pull-out Box Packing

**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**

<b>Structure</b>	<b>Construction</b>	U/UTP
	<b>Number of Pairs</b>	4 Pair
	<b>AWG</b>	24AWG
	<b>Conductor Dimension (mm)</b>	0.515 (24AWG)
<b>Insulation</b>	<b>Solid or Stranded; Bare or Tinned</b>	Solid bare copper
	<b>Insulation Material</b>	HDPE, FRPE
	<b>Insulation Dimension (mm)</b>	0.9
	<b>Number Colour (Ring or Strip Marking)</b>	1.White/Blue(Ring) & Blue 2.White/Orange(Ring) & Orange 3.White/Green(Ring) & Green 4.White/Brown(Ring) & Brown
<b>Shield</b>	<b>Cross Filler</b>	No
	<b>Individual Shield &amp; Material</b>	No
	<b>Outer Shield &amp; Material</b>	No
<b>Outer Jacket</b>	<b>Drain Wire</b>	No
	<b>Outer Jacket Material</b>	PVC or LSZH
	<b>Outer Jacket Ripcord</b>	Per customer request
<b>Mechanical Characteristics</b>	<b>Overall Nominal Diameter (mm)</b>	24AWG UTP nom:5.0mm
	<b>Operating Temp. Range</b>	-20~75°C
	<b>Bulk Cable Weight (KG)</b>	32KG (24AWG)
	<b>Max. Recommended Pulling Tension</b>	110N
	<b>Min. Bend Radius (Install)</b>	4 X O.D.
	<b>Flame Test</b>	CMX, CM, CMG, CMR, IEC60332-1
	<b>Electrical Characteristics</b>	<b>Nom. Mutual Capacitance @ 1kHz</b>
<b>Max. Capacitance Unbalance (pF/100m)</b>		≤ 330pF/100M(Per TIA/EIA-568B.2) ≤ 160pF/100M(Per IEC 61156)
<b>Nominal Velocity of Propagation</b>		65%
<b>Max. Delay Skew (ns/100m)</b>		≤ 45ns /100M
<b>Max. Conductor DC Resistance @ 20 Deg. C</b>		9.38Ω /100M(24AWG)
<b>Max. DC Resistance Unbalance @ 20 Deg. C</b>		≤ 5%(Per TIA/EIA-568B.2) ≤ 2%(Per IEC 61156-5)
<b>Max. Insulation Resistance (MΩ/km)</b>	5000	
<b>Max. Operating Voltage-UL</b>	300V	



**4PR 24AWG U/UTP (CAT5E PREMIUM) / Part No.: LN-A0424AU5E**
**TIA/EIA-568B.2 Electrical Characteristics**

Frequency (MHz)	Impedance (Ohms)	ATT (dB/100m)	RL (dB)	NEXT (dB)	PSNEXT (dB)	ELFEXT (dB Min/100m)	PSELFEXT (dB/100m)	Delay (ns/100m)
1	100 ± 15	2.0	20.0	65.3	62.3	63.8	60.8	570.0
4	100 ± 15	4.1	23.0	56.3	55.3	51.7	48.7	552.0
8	100 ± 15	5.8	24.5	51.8	48.8	45.7	42.7	546.7
10	100 ± 15	6.5	25.0	50.3	47.3	43.8	40.8	545.4
16	100 ± 15	8.2	25.0	47.3	44.3	39.7	36.7	543.0
20	100 ± 15	9.3	25.0	45.8	42.8	37.7	34.7	542.0
25	100 ± 15	10.4	24.3	44.3	41.3	35.8	32.8	541.2
31.25	100 ± 15	11.7	23.6	42.9	39.9	33.9	30.9	540.4
62.5	100 ± 15	17.0	21.5	38.4	35.4	27.8	24.8	538.6
100	100 ± 15	22.0	20.1	35.3	32.3	23.8	20.8	537.6
155	100 ± 20	28.1	18.8	32.5	29.5	19.9	16.9	536.9
200	100 ± 22	32.4	18.0	30.8	27.8	17.7	14.7	536.5

**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
125	100 ± 15	24.1	19.4	33.8	30.8	22.1	19.1	537	45

