

Product Specifications

Product : Lan cable U/UTP 24AWG X 4P - (Solid) | Class Dca - CAT.6 LSZH

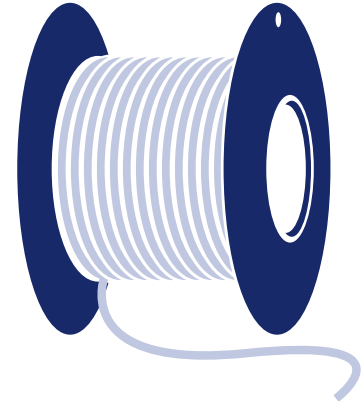
Product family: ZYBRNET

Applications

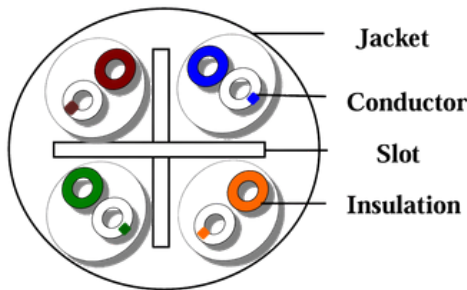
LAN cable is suitable for perfect audio data and video of transfer for Local Area Network

Standard

UL444、ANSI/TIA-568-C.2



Product figure



Construction & Dimension

Conductor

- AWG: 24 AWG X 4P
- Conductor material: Annealed Bare Copper
- Construction: 1 / 0.53 ± 0.01 mm

Core Assembly

- Core Twist: 2 core twist
- Slot: PE
- Assembly Pair: 4 pair assembly

Drain

- N.A: N.A

Jacket

- Material: LSZH
- Minimum Average Thickness: 0.43 mm
- Minimum Thickness at any point: 0.4 mm
- Overall Diameter(Approx.): 5.8 ± 0.2 mm
- Color: GRAY OR OTHER COLOR

Insulation

- Material: HDPE
- Minimum Average Thickness: 0.19 mm
- Minimum Thickness at any point: 0.18 mm
- Diameter: 0.93 ± 0.03 mm
- Number colour (identification):
 - 1.Blue×White / Blue
 - 2.Orange×White / Orange
 - 3.Green×White / Green
 - 4.Brown×White / Brown

Electrical & Physical Properties

Specification

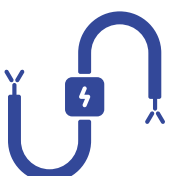
- Rating Temp: 75°C
- Conductor Resistance: 9.38 Ω/100m 20°C Max.
- Mutual Capacitance: 5.6 nF/100m Max.
- Dielectric Strength: AC 1.5kv / 2sec
- Spark Test: 2.5 KV
- Installation temperature: 0°C to 60°C
- Operating temperature: -20°C to 60°C
- Minimum bending radius: ≥ 4 times of overall diameter
- Maximum pulling tension: ≤ 110 N

Insulation

- (Unaged) Tensile Strength: 2400 PSI Min.(1.68kg/mm²)
- (Unaged) Elongation: 300% Min.
- (Aged) Tensile Strength: Min. 75% (100°C x 48 hrs)
- (Aged) Elongation: Min. 75% (100°C x 48 hrs)

Jacket

- (Unaged) Tensile Strength: 2000 PSI Min.(1.41kg/mm²)
- (Unaged) Elongation: 100% Min.
- (Aged) Tensile Strength: Min.85% (100°C x 240 hrs)
- (Aged) Elongation: Min. 50% (100°C x 240 hrs)



Electrical Performance

- DELAY SKEW: 45 ns/100m MAX (1- 250MHz)
- INPUT IMPEDANCE : 100 ± 15 (1- 250MHz)
- ACRF: 27.8- 20log(f/100) dB/100M MIN (1- 250MHz)
- PSACRF:25- 20 log(f/100) dB/100M MIN (1- 250MHz)
- RETURN LOSS: 20+5log(f) dB MIN (1-10MHz) 25 dB MIN(10-20MHz) 25-7log(f/20)dB MIN (>20MHz)
- INSERTION LOSS: 1.808 $\sqrt{f+0.017f+0.2/\sqrt{f}}$ dB/100M MAX (1- 250MHz)
- PROPAGATION DELAY: 534 + 36/ \sqrt{f} ns/100m MAX (1- 250MHz)
- NEXY: 44.3- 15 log(f/100) dB/100M MIN (1- 250MHz)
- PSNEXT: 42.3- 15log(f/100) dB/100M MIN (1- 250MHz)

NOTE: Attenuation To Crosstalk Ratio Far End (ACRF) was previously referred to as Equal Level Far End Crosstalk (ELFEXT)

Electrical characteristics

MHz \ Item	R.L. MIN. (dB/100m)	Att. MAX. (dB/100m)	NEXT MIN. (dB/100m)	PSNEXT MIN. (dB/100m)	ACRF MIN. (dB/100m)	PSACRF MIN. (dB/100m)	Propagation Delay MAX. (ns/100m)	Delay Skew MAX. (ns/100m)
1.0	20.0	2.0	74.3	72.3	67.8	65.0	570.0	45
4.0	23.0	3.8	65.3	63.3	55.8	53.0	552.0	
10.0	25.0	6.0	59.3	57.3	47.8	45.0	545.4	
16.0	25.0	7.6	56.2	54.2	43.7	40.9	543.0	
20.0	25.0	8.5	54.8	52.8	41.8	39.0	542.0	
31.25	23.6	10.7	51.9	49.9	37.9	35.1	540.4	
62.5	21.5	15.4	47.4	45.4	31.9	29.1	538.6	
100.0	20.1	19.8	44.3	42.3	27.8	25.0	537.6	
200	18.0	29.0	39.8	37.8	21.8	19.0	536.5	
250	17.3	32.8	38.3	36.3	19.8	17.0	536.3	

Revision record

Date	version	change Description
Apr 17, 2026	V.0	First release

