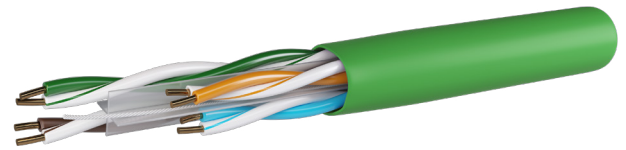


COPPER CABLE CAT6 U/UTP - LSZH - 24 AWG



DESCRIPTION

- Performance up to 250MHz;
- Package fast and easy – reel in box;
- Decreasing meters in the cable.

APPLICABLE STANDARDS

Electrical Performance:

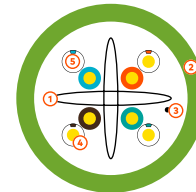
- ISO/IEC 11801; • ISO/IEC 61156-5; • EN 50173; • EN 50288-6-1;
- ANSI/ TIA-568-D;

Reaction to fire:

- IEC 60332-3-22; • IEC 60754; • IEC 61034; • EN 50267-2-3;
- EN 13501-6; • EN ISO 1716:2010; • EN 50575.

PoE:

- IEEE 802.3bt PoE Type 1, 2, 3 and 4.



- 1 Cross Separator
- 2 Outer Jacket
- 3 Rip-cord
- 4 Insulation
- 5 Conductor



CABLE PROPERTIES

Category	CAT6 U/UTP			
Conductor	Material	Copper		
	Nom O.D. (AWG)	24		
Insulation	Material	HDPE		
	Diameter	0,92 ± 0,05 mm		
	Thickness	0,036 in		
Sheath	External O.D.	0,55 ± 0,1 mm		
		0,022 in		
	Material	LSZH (complies RoHS)		
	Color	Green (RAL6018)		
Rip-cord	Yes			
Core Color	Pair 1	White-Blue/Blue	Pair 2	White-Orange/Orange
	Pair 3	White-Green/Green	Pair 4	White-Brown/Brown



COPPER CABLE
CAT6 U/UTP - LSZH - 24 AWG

SHEATH PHYSICAL PROPERTIES

Before Aging Tensile Strength (Mpa)	≥ 10,0
Before Aging Elongation (%)	≥ 125
Aging Period (°C x hrs)	100°C x 24h x 7d
After Aging Tensile Strength (Mpa)	≥ 8,0
After Aging Elongation (%)	≥ 100
Cold bend (-20±2°C x 4h)	8 x Cable O.D., No visible cracks

ELECTRICAL CHARACTERISTICS (20°C)

	Typical barpa values	Standard values
1-250MHz - Impedance (Ω)	100 ± 15	-
1-250MHz - Delay Skew (ns/100m)	35	≤ 45
DC Resistance (Ω/100m)	8,20	≤ 9,38
DC Conductor Resistance Unbalance (%)	0,5% in pair; 2,4% between pair	≤ 5,0
Unbalanced to Ground Capacitance (pf/100m)	130	≤ 330
1-250MHz - Velocity of Propagation (%) - NVP	69	-

TECHNICAL PERFORMANCE (100m || 328ft.)

Frequency (MHz)	Attenuation ≤ dB		Return Loss ≥ dB		NEXT ≥ dB		PHASE DELAY ≤ ns		PSNEXT ≥ dB		ELFEXT ≥ dB		PSELFEXT ≥ dB	
	GWC	BT	GWC	BT	GWC	BT	GWC	BT	GWC	BT	GWC	BT	GWC	BT
1	2,03	1,96	20,00	25,75	74,30	76,30	570,00	546,02	72,30	74,30	67,80	69,80	64,80	66,80
4	3,78	3,60	23,00	32,81	65,30	67,30	552,00	528,37	63,30	65,30	55,80	57,80	52,80	54,80
8	5,32	5,15	24,50	34,76	60,80	62,80	546,73	523,19	58,80	60,80	49,70	51,70	46,70	48,70
10	5,95	5,75	25,00	35,94	59,30	61,30	545,38	521,88	57,30	59,30	47,80	49,80	44,80	46,80
16	7,55	7,35	25,00	35,03	56,20	58,20	543,00	519,54	54,20	56,20	43,70	45,70	40,70	42,70
20	8,47	8,22	25,00	36,16	54,80	56,80	542,05	518,61	52,80	54,80	41,80	43,80	38,80	40,80
25	9,51	9,24	24,30	33,84	53,30	55,30	541,20	517,77	51,30	53,30	39,80	41,80	36,80	38,80
31,25	10,67	10,37	23,60	33,69	51,90	53,90	540,44	517,03	49,90	51,90	37,90	39,90	34,90	36,90
62,50	15,38	15,08	21,50	29,60	47,70	49,70	538,55	515,18	45,40	47,40	31,90	33,90	28,90	30,90
100	19,80	19,50	20,10	29,86	44,30	46,30	537,60	514,24	42,30	44,30	27,80	29,80	24,80	26,80
200	28,98	28,68	18,00	21,74	39,80	41,80	536,54	513,21	37,80	39,80	21,80	23,80	18,80	20,80
250	32,85	31,10	17,30	20,54	38,30	40,30	536,27	512,94	36,30	38,30	19,80	21,80	16,80	18,80

GWC = Guaranteed Worst Case // BT = barpa Typical

INSTALLATION

Temperature Range (Operation)	-20°C to +75°C	Temperature Range (Installation)	0°C to +50°C
Min. Bending Radius (Operation)	4D, D is the finished diameter	Max. Tensile Load (Installation)	100N

CABLE MARK

barpa (code) category 6 U-UTP LSZH CU cable 4 pair 24 AWG Verified to ISO/IEC11801, EN 50173, EN 50174 CLASS CPR NVP-69 ___m (produce date)

ORDER INFORMATION

Code	Type of package	Size package (mm)	Gross Weight (kg/item)	Net Weight (kg/item)	Quantity (m)	EAN CODE	CPR Class
82222146030D1	Reel in box	330x265x350	14,0	12,0	305	5608445029911	Dca-s2,d2,a1
82222146100D1	Drum	560x200x240	45,0	40,0	1000	5608445032324	Dca-s2,d2,a1

PACKAGING

This images are merely illustratives. We want you to see the importance we attach to the packaging. We always work with products and materials that are easy to use. The drum material is Plywood. The cable CAT6 U/UTP LSZH (82222146***D1) is green.

