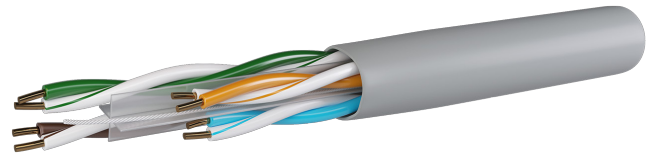


**COPPER CABLE**  
**CAT6 U/UTP - PVC - 24 AWG**

**DESCRIPTION**

- Performance up to 250MHz;
- Decreasing meters in the cable;
- Support PoE, voice, video and Gigabit Ethernet.



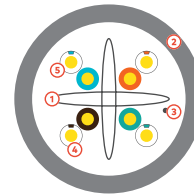
**APPLICABLE STANDARDS**

**Electrical Performance:**

- ISO/IEC 11801; • EN 50173; • ANSI/ TIA-568-D;
- ANSI/ TIA-568-D.2.

**Reaction to fire:**

- IEC 60332-1-[1,2]; • EN 50575:2014;
- EN 13501-6:2018.



- ① Cross Separator;
- ② Sheath;
- ③ Rip-cord;
- ④ Insulation;
- ⑤ Conductor.



**CABLE PROPERTIES**

Category	CAT6 U/UTP			
Conductor	Material	Copper		
	Nom O.D.	AWG 24 - 0,52 ± 0,005mm		
Insulation	Material	HDPE		
	Diameter	0,98 ± 0,03 mm		
	Thickness	0,55 ± 0,05 mm		
Sheath	External O.D.	6,0 ± 0,4 mm		
	Material	PVC (complies RoHS)		
	Color	Grey (RAL7035)		
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 - PVC - 24 AWG**

**SHEATH PHYSICAL PROPERTIES**

Before Aging Tensile Strength (Mpa)	≥ 13,5
Before Aging Elongation (%)	≥ 150
Aging Period (°C x hrs)	100°C x 24h x 7d
After Aging Tensile Strength (Mpa)	≥ 12,5
After Aging Elongation (%)	≥ 125
Cold bend (-20±2°C x 4h)	8 x Cable O.D., No visible cracks

**ELECTRICAL CHARACTERISTICS (20°C)**

1-250MHz - Impedance (Ω)	100 ± 15
1-250MHz - Delay Skew (ns/100m)	≤ 45
DC Resistance (Ω/100m)	≤ 7,6
DC Conductor Resistance Unbalance (%)	≤ 5,0
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	25,75	74,3	76,3	570	546,02	72,3	74,3	67,8	69,8	64,8	66,8
4	3,78	3,6	23	32,81	65,3	67,3	552	528,37	63,3	65,3	55,8	57,8	52,8	54,8
8	5,32	5,15	24,5	34,76	60,8	62,8	546,73	523,19	58,8	60,8	49,7	51,7	46,7	48,7
10	5,95	5,75	25	35,94	59,3	61,3	545,38	521,88	57,3	59,3	47,8	49,8	44,8	46,8
16	7,55	7,35	25	35,03	56,2	58,2	543	519,54	54,2	56,2	43,7	45,7	40,7	42,7
20	8,47	8,22	25	36,16	54,8	56,8	542,05	518,61	52,8	54,8	41,8	43,8	38,8	40,8
25	9,51	9,24	24,3	33,84	53,3	55,3	541,2	517,77	51,3	53,3	39,8	41,8	36,8	38,8
31,25	10,67	10,37	23,6	33,69	51,9	53,9	540,44	517,03	49,9	51,9	37,9	39,9	34,9	36,9
62,5	15,38	15,08	21,5	29,6	47,7	49,7	538,55	515,18	45,4	47,4	31,9	33,9	28,9	30,9
100	19,8	19,5	20,1	29,86	44,3	46,3	537,6	514,24	42,3	44,3	27,8	29,8	24,8	26,8
200	28,98	28,68	18	21,74	39,8	41,8	536,54	513,21	37,8	39,8	21,8	23,8	18,8	20,8
250	32,85	31,1	17,3	20,54	38,3	40,3	536,27	512,94	36,3	38,3	19,8	21,8	16,8	18,8

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 (product code) category 6 U-UTP PVC cable 4 pair 24 AWG Verified to ISO/IEC11801, EN 50173, EN 50174 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
82222153030	Box	390x390x220	12,6	11,8	305	5608445032331
82222153100	Drum	380x160x390	40,0	37,4	1000	5608445000132

## 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.

