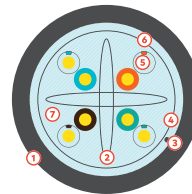
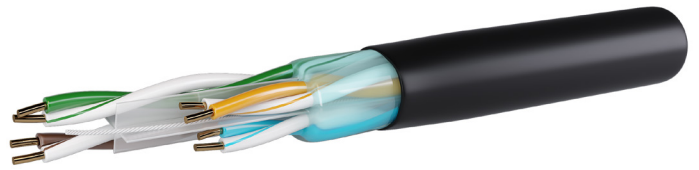


DESCRIPTION

- Performance specified up to 250MHz and tested up to 550MHz;
- Decreasing length cable markings - Easy identification of remaining cable reduces installation time and cable scrap;
- Designed to Support all Class E protocols including 1GBASE-T;



- ① Outer Jacket
- ② Cross Separator
- ③ Rip-cord
- ④ PET tape
- ⑤ Insulation
- ⑥ Conductor
- ⑦ Jelly Filled

APPLICABLE STANDARDS

Electrical Performance:

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

PoE:

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



CONSTRUCTION

Category		CAT6 U/UTP			
Conductor	Material	Solid-Bare Copper			
	Nom O.D.	0,55 ± 0,005 mm 0,022 in			
Insulation	Material	HDPE			
	Diameter	1,12 ± 0,05 mm 0,044 in			
	Thickness	0,6 ± 0,05 mm 0,024 in			
Sheath	External O.D.	7,1 ± 0,5 mm 0,279 ± 0,016 in			
	Material	LDPE (complies RoHS)			
	Color	Black (RAL9005)			
Rip-cord	Yes				
Core Color	Pair 1	White-Blue/Blue	Pair 3	White-Orange/Orange	
	Pair 2	White-Green/Green	Pair 4	White-Brown/Brown	



ENTERPRISE/DATA CENTER COPPER CABLE
CAT6 U/UTP - PE - JELLY FILLED - 23 AWG - 0,55mm

SHEATH PHYSICAL PROPERTIES

Before Aging Tensile Strength (Mpa)	≥ 10,0
Before Aging Elongation (%)	≥ 350
Aging Period (°C x hrs)	100°C x24hx10d
After Aging Elongation (%)	≥ 300
Cold bend (-20±2°C x 4h)	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)	7,6	≤ 9,38
DC Conductor Resistance Unbalance (%)	0,5% in pair; 2,4% between pair	≤ 5,0
Unbalanced to Ground Capacitance (pf/100m)	100	≤ 330
1-250MHz - Velocity of Propagation (%) - NVP	65	-

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	1,75	20	27,75	74,3	87,2	570	546,02	72,3	83,63	67,8	87,93	64,8	83,01
4	3,78	3,51	23	34,81	65,3	76,9	552	528,37	63,3	77,8	55,8	71,52	52,8	70,01
8	5,32	5	24,5	36,76	60,8	71,57	546,73	523,19	58,8	68,79	49,7	63,49	46,7	62,18
10	5,95	5,6	25	37,94	59,3	70,42	545,38	521,88	57,3	68,36	47,8	61,32	44,8	60,05
16	7,55	7,12	25	37,03	56,2	67,36	543	519,54	54,2	65,25	43,7	63,64	40,7	61,87
20	8,47	8	25	38,16	54,8	65,44	542,05	518,61	52,8	61,39	41,8	57,13	38,8	56,48
25	9,51	8,96	24,3	35,84	53,3	61,46	541,2	517,77	51,3	60,4	39,8	53,56	36,8	52,99
31,25	10,67	10,05	23,6	35,69	51,9	59,02	540,44	517,03	49,9	58,49	37,9	56,37	34,9	52,51
62,5	15,38	14,41	21,5	31,6	47,7	57,38	538,55	515,18	45,4	56,03	31,9	48,64	28,9	45,33
100	19,8	18,28	20,1	32,86	44,3	59,26	537,6	514,24	42,3	57,21	27,8	43,97	24,8	42,13
200	28,98	26,24	18	23,74	39,8	52,37	536,54	513,21	37,8	49,45	21,8	36,61	18,8	35,86
250	32,85	29,5	17,3	22,54	38,3	57,47	536,27	512,94	36,3	53,41	19,8	39,59	16,8	35,94

GWC = Guaranteed Worst Case // BT = barpa Typical



ENTERPRISE/DATA CENTER COPPER CABLE CAT6 U/UTP - PE - JELLY FILLED - 23 AWG - 0,55mm

INSTALLATION

Temperature Range (Operation)	-40°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 PE Jelly Filled cable 4 pair 23 AWG Verified to ISO/IEC11801, EN 50173, EN 50174 NVP-65 __m (produce date)

ORDER INFORMATION

Code	Description	Type of package	Size package (mm)	Gross Weight (kg/item)	Net Weight (kg/item)	Quantity (m)	EAN CODE
82222144030	Cable Cat.6 U/UTP PE Jelly Filled	Drum	380x380x260	18	16	305	5608445013484

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, and the PE cable is black.



As part of our goal to achieve quality excellence, our barpa System Warranty can give you 25 years products and solution assurance of compliance with the industry performance standard comparing with the class installed. This warranty applies to network infrastructure installations that was made by an approved barpa partner using an barpa solution (end-to-end). For more informations go to our website.

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More information: info@barpa.eu or in www.barpa.eu

datasheet n° b35_2