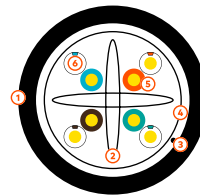
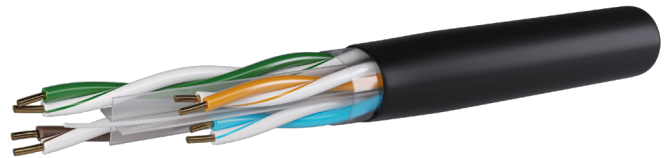




ENTERPRISE/DATA CENTER COPPER CABLE
CAT6 U/UTP - PE -23 AWG - 0,565mm

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

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	Copper		
	Nom O.D.	0,565 ± 0,005 mm 0,022 in		
Insulation	Material	HDPE		
	Diameter	0,98 ± 0,03 mm 0,039 in		
	Thickness	0,6 ± 0,05 mm 0,024 in		
Sheath	External O.D.	6,4 ± 0,5 mm 0,252 ± 0,016 in		
	Material	PE (complies RoHS)		
	Color	Black (RAL9005)		
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

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



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CAT6 U/UTP - PE -23 AWG - 0,565mm

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	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	1,75	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
500*	-	46,12	-	23,32	-	51,32	-	512,44	-	47,52	-	32,61	-	29,44
550*	-	48,72	-	22,15	-	50,08	-	512,03	-	47,33	-	31,55	-	28,95

GWC = Guaranteed Worst Case // BT = barpa Typical



ENTERPRISE/DATA CENTER COPPER CABLE
CAT6 U/UTP - PE -23 AWG - 0,565mm

INSTALLATION

Temperature Range (Operation)	-40°C a +75°C	Temperature Range (Installation)	0°C a +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 cable 4 pair 23 AWG Verified to ISO/IEC11801, EN 50173, EN 50174 NVP-69 __m CPR Class (produce date)

ORDER INFORMATION

Code	CPR - Class	Type of package	Size package (mm)	Gross Weight (kg/item)	Net Weight (kg/item)	Quantity (m)	EAN
82222134100	Fca	Drum	Ø560x240	42,2	37,7	1000	5608445000149
82222134050	Fca	Drum	Ø370x320	24,0	21,5	500	5608445014344

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.