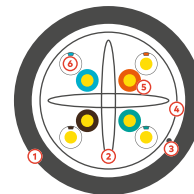
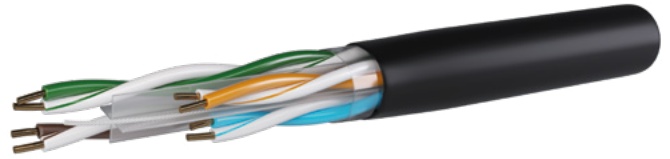




## ENTERPRISE/DATA CENTER COPPER CABLE CAT6A U/UTP - PE - 23 AWG - 0,565mm

### DESCRIPTION

- Performance specified up to 500MHz;
- Decreasing length cable markings - Easy identification of remaining cable reduces installation time and cable scrap;
- Designed to Support all Class EA protocols including 10GBASE-T.



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

### STANDARDS

#### Electrical Performance:

- ISO/IEC 11801; • ISO/IEC 61156-5; • EN 50173; • EN 50288-11-1;
- ANSI/TIA-568-D;



#### PoE:

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

### CONSTRUCTION

Category	CAT6A U/UTP			
Conductor	Material	Solid Bare Copper		
	Nom O.D.	0,565 ± 0,005 mm		
		0,022 in		
Insulation	Material	HDPE		
	Diameter	1,020 ± 0,030 mm		
		0,040 in		
	Thickness	0,60 ± 0,05 mm		
0,016 in				
Sheath	External O.D.	6,9 ± 0,5 mm		
		0,272 ± 0,019 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



ENTERPRISE/DATA CENTER COPPER CABLE  
CAT6A 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 x24hx7d
After Aging Elongation (%)	≥ 300
Cold bend (-20±2°C x 4h)	8 x Cable O,D,, No visible cracks

**ELECTRICAL CHARACTERISTICS (20°C)**

	Typical barpa values	Standard values
1-500MHz - Impedance (Ω)	100 ± 15	-
1-500MHz - Delay Skew (ns/100m)	35	≤ 45
DC Resistance (Ω/100m)	7,4	≤ 9,38
DC Conductor Resistance Unbalance (%)	0,5% in pair; 2,4% between pair	≤ 5,0
Unbalanced to Ground Capacitance (pf/100m)	100	≤ 330
1-500MHz - Velocity of Propagation (%) - NVP	69	-

**TECHNICAL PERFORMANCE (100m II 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	2,1	1,71	20,0	27,93	74,3	89,85	570,0	535,79	72,3	87,32	67,8	86,93	64,8	83,01
4	3,8	3,34	23,0	27,5	65,3	79,25	552,0	50,07	63,3	77,12	55,8	70,52	52,8	68,01
8	5,3	4,77	24,5	26,28	60,8	71,41	546,7	515,47	58,8	70,37	49,7	62,49	46,7	60,18
10	5,9	5,34	25,0	27,02	59,3	71,99	545,4	514,29	57,3	70,65	47,8	60,32	44,8	58,05
16	7,5	6,86	25,0	27,92	56,2	71,43	543,0	512,21	54,2	68,91	43,7	61,64	40,7	59,87
20	8,4	7,67	25,0	28,91	54,8	65,32	542,1	511,38	52,8	63,72	41,8	56,13	38,8	54,48
25	9,4	8,66	24,3	33,2	53,3	64,57	541,2	510,64	51,3	66,74	39,8	51,56	36,8	49,99
31,25	10,5	9,74	23,6	31,89	51,9	63,3	540,4	509,98	49,9	64,7	37,9	54,37	34,9	52,51
62,5	15,0	14,05	21,5	29,53	47,4	55,59	538,6	508,8	45,4	55,36	31,9	46,64	28,9	43,33
100	19,1	17,94	20,1	31,65	44,3	59,66	537,6	507,5	42,3	57,53	27,8	41,97	24,8	40,13
200	27,6	26,11	18,0	33,63	39,8	54,59	536,5	506,58	37,8	52,06	21,8	34,61	18,8	32,86
250	31,1	29,37	17,3	27,23	38,3	49,53	536,3	506,34	36,3	47,98	19,8	37,59	16,8	34,94
300	34,3	32,71	16,8	24,61	37,1	51,83	536,1	506,17	35,1	51,19	18,3	34,73	15,3	31,94
500	45,3	42,61	15,2	20,43	33,8	50,82	535,6	505,76	31,8	50,53	13,8	32,59	10,8	30,94

GWC = Guaranteed Worst Case // BT = barpa Typical



## ENTERPRISE/DATA CENTER COPPER CABLE CAT6A U/UTP - PE - 23 AWG - 0,565mm

### INSTALLATION

Temperature Range (Operation)	-20°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 (product code) category 6A U-UTP PE cable 4 pair 23 AWG Verified to ISO/IEC11801, EN 50173, EN 50174 NVP-69\_\_m (produce date)

### ORDER INFORMATION

Code	CPR	Type of package	Size package (mm)	Gross Weight (kg/item)	Net Weight (kg/item)	Quantity (m)
82223134050	Fca	Drum	Ø380x320	24	22	500

### 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,

This document is authored and owned by barpa. It is forbidden to reproduce in whole or in part without mentioning its authorship, as well as modification of its content or context. All specifications are subject to change without notice. The pictures/drawings are merely illustrative.

More information: [info@barpa.eu](mailto:info@barpa.eu) or in [www.barpa.eu](http://www.barpa.eu)  
datasheet n° b4\_3