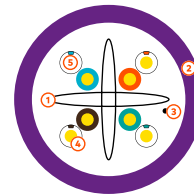
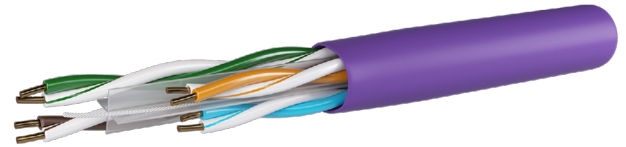


ENTERPRISE/DATA CENTER COPPER CABLE CAT6A U/UTP - LSZH -23 AWG - 0,565mm

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

APPLICABLE STANDARDS

Electrical Performance:

- ISO/IEC 11801; • ISO/IEC 61156-5; • EN 50173; • EN 50288-11-1;
- 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.



CABLE PROPERTIES

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	0,700 ± 0,050 mm 0,028 in		
Sheath	Nom O.D.	7,100 ± 0,400 mm 0,279 ± 0,016 in		
	Material	FR-LSZH (complies RoHS)		
	Color	Purple (RAL4005)		
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 - LSZH -23 AWG - 0,565mm

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
1-500MHz - 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	68	-

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	2,10	1,7	20,00	29,93	74,30	90,85	570,00	546,19	72,30	88,32	67,80	87,93	64,80	83,01
4	3,80	3,41	23,00	29	65,30	80,25	552,00	528,58	63,30	79,12	55,80	71,52	52,80	70,01
8	5,30	4,87	24,50	28,28	60,80	73,41	546,70	523,42	58,80	72,37	49,70	63,49	46,70	62,18
10	5,90	5,44	25,00	29,67	59,30	73,99	545,40	522,11	57,30	72,65	47,80	61,32	44,80	60,05
16	7,50	6,96	25,00	30,92	56,20	75,43	543,00	519,78	54,20	70,91	43,70	63,64	40,70	61,87
20	8,40	7,77	25,00	29,91	54,80	66,32	542,10	518,85	52,80	65,72	41,80	57,13	38,80	56,48
25	9,40	8,76	24,30	35,2	53,30	70,57	541,20	518,02	51,30	68,74	39,80	53,56	36,80	52,99
31,25	10,50	9,84	23,60	32,87	51,90	68,3	540,40	517,27	49,90	66,7	37,90	56,37	34,90	52,51
62,5	15,00	14,15	21,50	31,42	47,40	57,59	538,60	515,43	45,40	57,36	31,90	48,64	28,90	45,33
100	19,10	18,04	20,10	32,79	44,30	61,66	537,60	514,5	42,30	59,53	27,80	43,97	24,80	42,13
200	27,60	26,21	18,00	34,63	39,80	56,59	536,50	513,46	37,80	54,06	21,80	36,61	18,80	35,86
250	31,10	29,47	17,30	31,23	38,30	51,53	536,30	513,2	36,30	49,98	19,80	39,59	16,80	35,94
300	34,30	32,81	16,80	28,61	37,10	53,83	535,10	513,01	35,10	53,19	18,30	36,73	15,30	33,94
500	45,30	42,89	15,2	22,43	33,80	54,82	535,60	512,55	31,80	51,53	13,80	34,59	10,80	32,94

GWC = Guaranteed Worst Case // BT = barpa Typical



ENTERPRISE/DATA CENTER COPPER CABLE CAT6A U/UTP - LSZH -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

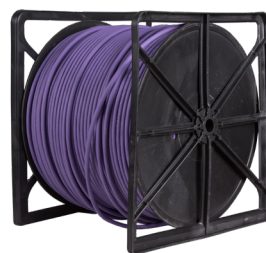
barpa (product code) category 6A U-UTP LSZH CU cable 4 pair 23 AWG Verified to ISO/IEC11801, EN 50173, EN 50174 CPR Class NVP-68 ___m (produce date)

ORDER INFORMATION

Code	Type of package	Size package (mm)	Gross Weight (kg/item)	Net Weight (kg/item)	Quantity (m)	EAN CODE	CPR Class
82223122030D1	Reel in box	375x335x375	16,5	14,5	305	5608445000040	Dca-s2,d2,a1
82223122050D1	Drum	380x160x320	25,7	23,7	500	5608445000057	Dca-s2,d2,a1
82223122050B1	Drum	380x380x390	29,5	27,0	500	5608445038616	B2ca-s1a,d1,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.



Available in different CPR class. Please specify in your request.



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° b3_5 | date: 09/23

approved by: Ana Barbosa