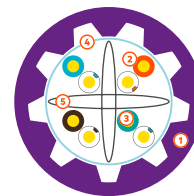
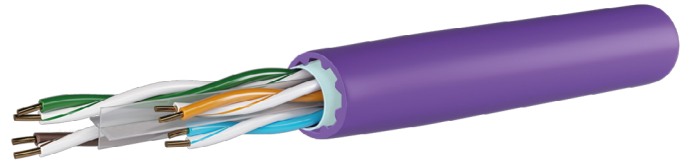


## ENTERPRISE/DATA CENTER COPPER CABLE EXTREME CAT6A U/UTP - LSZH -23 AWG - 0,57mm

### DESCRIPTION

- Certified by lab Force in Permanent Link including all Alien Crosstalk parameters (PS ANEXT and PS AACR-F);
- 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 Sheath
- ② Insulation
- ③ Conductor
- ④ PET Tape
- ⑤ Cross Separator

### APPLICABLE STANDARDS

#### Electrical Performance:

- ISO/IEC 11801; • IEC 61156-5; • EN50173; • ANSI/TIA-568-D; • UL444

#### Reaction to fire:

- EN 60754-2:2014; • EN 61034-2:2005+A1:2014; • EN 50575:2014+A1:2016;
- EN 60332-1-2:2004+A1:2015+A11:2016; • EN 50399:2011+A1:2016; • RoHS

#### PoE:

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



### CABLE PROPERTIES

Category		Cat.6A U/UTP			
Conductor	Material	Solid Bare Copper			
	Nom O.D.	0,57±0,005mm 0,0224 in			
Insulation	Material	PE			
	Diameter	1,07±0,08mm 0,042 in			
	Thickness	0,60mm 0,024 in			
Sheath	Nom O.D.	8,6±0,30mm 0,339 in			
	Material	FR-LSZH (complies RoHS)			
	Color	Purple (RAL4005)			
Rip-cord	None				
Core Color	Pair 1	White-Blue/Blue	Pair 2	White-Orange/Orange	
	Pair 3	White-Green/Green	Pair 4	White-Brown/Brown	
Binder	PET				

ENTERPRISE/DATA CENTER COPPER CABLE  
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**SHEATH PHYSICAL PROPERTIES**

Before Aging Tensile Strength (Mpa)	≥ 9
Before Aging Elongation (%)	≥ 100
Aging Period (°C x hrs)	100°C x 24h x 7d
After Aging Tensile Strength (Mpa)	≥ 6,3
After Aging Elongation (%)	≥ 50
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)	34,88	≤ 45
DC Resistance (Ω/100m)	7,45	≤ 9,38
DC Conductor Resistance Unbalance (%)	0,5% in pair; 2,4% between pair	≤ 2,0
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	
	GWC	BT	GWC	BT	GWC	BT	GWC	BT	GWC	BT
1	2,08	1,92	20,00	25,20	75,30	25,20	71,00	567,29	72,30	80,46
4	3,80	3,54	23,01	30,54	66,27	30,54	58,96	549,26	63,27	77,36
8	5,31	5,03	24,52	35,84	61,75	35,84	52,94	544,07	58,75	71,59
10	5,93	5,64	25,00	35,85	60,30	35,85	51,00	542,73	57,30	72,23
16	7,49	7,17	25,00	39,53	57,24	39,53	46,92	540,37	54,24	71,86
20	8,38	8,04	25,00	33,46	55,78	33,46	44,98	539,38	52,78	64,34
25	9,38	9,02	24,32	38,00	54,33	38,00	43,04	538,58	51,33	64,07
31.25	10,50	10,11	23,64	36,26	52,88	36,26	41,10	537,82	49,88	64,63
62.5	14,99	14,45	21,54	32,27	48,36	32,27	35,08	535,94	45,36	56,69
100	19,14	18,41	20,11	30,55	45,30	30,55	31,00	534,97	42,30	56,13
200	27,58	26,45	18,00	28,46	40,78	28,46	24,98	533,93	37,78	62,14
250	31,07	29,66	17,32	31,91	39,33	31,91	23,04	533,66	36,33	53,35
300	34,27	32,68	17,30	28,18	38,14	28,18	21,46	533,47	35,14	54,83
500	45,26	43,57	17,30	29,67	34,82	29,67	17,02	532,99	31,82	47,17

GWC = Guaranteed Worst Case // BT = barpa Typical

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ENTERPRISE/DATA CENTER COPPER CABLE  
EXTREME CAT6A U/UTP - LSZH -23 AWG - 0,57mm

**TECHNICAL PERFORMANCE (100m || 328ft.)**

Frequency (MHz)	ELFEXT ≥ dB		PSELFEXT ≥ dB		PS ANEXT		PS AACR-F	
	GWC	BT	GWC	BT	GWC	BT	GWC	BT
1	68,00	72,16	65,00	71,65	67,00	85,20	78,20	91,50
4	55,96	66,67	52,96	66,19	67,00	77,60	66,16	71,96
8	49,94	63,54	46,94	59,23	67,00	75,70	60,14	64,64
10	48,00	63,04	45,00	57,57	67,00	74,60	58,20	63,32
16	43,92	59,72	40,92	53,38	67,00	74,21	54,12	58,51
20	41,98	51,20	38,98	51,09	67,00	74,10	52,18	56,76
25	40,04	51,66	37,04	51,16	67,00	73,89	50,24	54,19
31.25	38,10	46,83	35,10	46,40	67,00	73,80	48,30	52,75
62.5	32,08	42,97	29,08	42,22	65,56	73,75	42,28	46,01
100	28,00	38,37	25,00	35,97	62,50	67,20	38,20	44,34
200	21,98	27,40	18,98	26,41	57,98	64,28	32,18	36,87
250	20,04	25,82	17,04	25,15	56,53	66,50	30,24	35,20
300	18,46	24,57	15,46	23,12	55,34	64,12	28,66	35,32
500	14,02	24,81	11,02	23,64	52,02	60,60	24,22	28,74

GWC = Guaranteed Worst Case // BT = barpa Typical

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**INSTALLATION**

Temperature Range (Operation)	-20°C to +75°C	Temperature Range (Installation)	0°C to +50°C
Min. Bending Radius (Operation)	8D, D is the finished diameter	Max. Tensile Load (Installation)	110N

**CABLE MARK**

barpa (code) category 6A U-UTP LSZH 0,57mm CU EXTREME cable 4 pair 23 AWG Verified to ISO/IEC11801, EN 50173, EN 50174 CLASS B2ca-s1a,d0,a1 NVP-68 \_\_\_ m (produce date YYYY-MM-DD)

**ORDER INFORMATION**

Code	Type of package	Size Package (mm)	Gross weight (kg/item)	Net Weight (kg/item)	Quantity (m)	EAN Code	CPR Class
82223122050B3	Drum	550x550x230	34	32	500	5608445034298	B2ca-s1a,d0,a1



ENTERPRISE/DATA CENTER COPPER CABLE  
EXTREME CAT6A U/UTP - LSZH -23 AWG - 0,57mm

## 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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**datasheet n° b151\_1 | date: 02/23**  
approved by: Rute Araújo