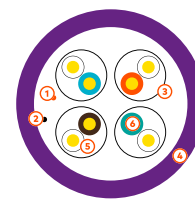


## ENTERPRISE/DATA CENTER COPPER CABLE CAT6A U/FTP - LSZH -23 AWG - 0,56mm - 700MHz

### DESCRIPTION

- Performance tested up to 700MHz in independent lab Force Technology;
- Individual foil pairs;
- 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;
- Supports Power Over Ethernet (PoE), Power Over Ethernet Plus (PoE+), High Power Ethernet (PoE++) and 4 Pair Power Over Ethernet (4PPoE) Applications.



- ① Drain Wire
- ② Rip-cord
- ③ Aluminum Foil
- ④ Outer Jacket
- ⑤ Insulation
- ⑥ Conductor



### APPLICABLE STANDARDS

#### Electrical Performance:

- ISO/IEC 11801; • ISO/IEC 61156-5; • EN 50173; • EN 50288-10-1;
- ANSI/ TIA-568-D.2;

#### 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.

### CONSTRUCTION

Category		CAT6A U/FTP 700MHz			
Conductor	Material	Solid Bare Copper			
	Nom O.D.	0,56 ± 0,005 mm			
		0,022 in			
Insulation	Material	Skin-foam-skin PE			
	Diameter	1,330 ± 0,05 mm			
		0,052 in			
	Thickness	0,55 ± 0,05 mm			
Sheath	External O.D.	7,4 ± 0,5 mm			
		0,307 ± 0,019 in			
	Material	LSZH (complies RoHS)			
	Color	Purple (RAL4005)			
Rip-cord	Yes				
Core Color	Pair 1	White/Blue	Pair 2	White/Orange	
	Pair 3	White/Green	Pair 4	White/Brown	



ENTERPRISE/DATA CENTER COPPER CABLE  
CAT6A U/FTP - LSZH -23 AWG - 0,56mm - 700MHz

**SHEATH PHYSICAL PROPERTIES**

Before Aging Tensile Strength (Mpa)	≥ 10,0
Before Aging Elongation (%)	≥ 125
Aging Period (°C x hrs)	100°C x24hx7d
After Aging Tensile Strength (Mpa)	≥ 8,0
After Aging Elongation (%)	≥ 100
Cold bend (-20±2°C x 4h) 8xCable O.D., No visible cracks	

**ELECTRICAL CHARACTERISTICS (20°C)**

	Typical barpa values	Standard values
1-250MHz - Impedance (Ω)	100 ± 15	-
250-500MHz - Impedance (Ω)	100 ± 22	-
1-500MHz - Delay Skew (ns/100m)	≤ 12	≤ 45
DC Resistance (Ω/100m)	≤ 7,2	≤ 9,38
DC Conductor Resistance Unbalance (%)	0,5% in pairs; 1,2% between pairs	≤ 5,0
Unbalanced to Ground Capacitance (pf/100m)	≤ 100	≤ 330
1-500MHz - Velocity of Propagation (%) - NVP	74	-
Insulation Resistance (MΩ.km)	> 5000	-

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

Frequency (MHz)	Attenuation ≤ dB		Return Loss ≥ dB		NEXT ≥ dB		PHASE DELAY ≤ ns		PSNEXT ≥ dB		ACR-N ≥ dB		PSACR-N ≥ dB	
	GWC	BT	GWC	BT	GWC	BT	GWC	BT	GWC	BT	GWC	BT	GWC	BT
1	2,10	1,98	20,00	31,08	74,30	93,94	570,00	479,69	72,30	91,7	67,80	92,01	64,80	89,29
4	3,80	3,59	23,00	35,28	65,30	96,68	552,00	462,2	63,30	93,19	55,80	94,1	52,80	90,15
8	5,30	4,95	24,50	33,99	60,80	93,93	547,00	457,08	58,80	90,89	49,70	92,04	46,70	87,8
10	5,90	5,52	25,00	33,22	59,30	94,69	545,00	455,77	57,30	91,36	47,80	89,01	44,80	86,57
16	7,50	7,03	25,00	33,46	56,20	93,18	543,00	453,46	54,20	90,17	43,70	87,03	40,70	83,49
20	8,40	7,92	25,00	30,52	54,80	88,94	542,00	452,53	52,80	87,46	41,80	88,22	38,80	85,63
25	9,40	8,95	24,30	31,56	53,30	96,08	541,00	451,71	51,30	93,46	39,80	84,24	36,80	81,75
31.25	10,50	10,08	23,60	31,32	51,90	96,06	540,00	450,97	49,90	91,93	37,90	83,4	34,90	81,59
62.5	15,00	14,38	21,50	35,29	47,40	92,33	539,00	449,14	45,40	88,01	31,90	78,01	28,90	74,47
100	19,10	18,25	20,10	31,44	44,30	87,75	538,00	448,21	42,30	85,05	27,80	75,83	24,80	71,53
200	27,60	26,08	18,00	33,21	39,80	78,52	537,00	447,18	37,80	74,34	21,80	60,74	18,80	57,83
250	31,10	29,26	17,30	31,07	38,30	74,26	536,00	446,92	36,30	69,77	19,80	61,21	16,80	57,76
300	34,30	32,16	16,80	29,67	37,10	72,36	536,00	446,73	35,10	68,57	18,30	58,66	15,30	55,13
400	40,10	37,54	15,90	27,03	35,30	69,07	536,00	446,46	33,30	67,07	15,80	43,6	12,80	41,58
500	45,30	42,26	15,20	23,32	33,80	72,83	536,00	446,27	31,80	70,26	13,80	42,92	10,80	39,76
600	-	44,70	-	24,50	-	66,90	-	446,00	-	67,80	-	55,90	-	53,80
700	-	48,50	-	23,00	-	69,00	-	446,00	-	67,80	-	55,80	-	53,00

GWC = Guaranteed Worst Case // BT = barpa Typical



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### 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-FTP 700 MHz LSZH cable 4 pair 23 AWG Verified to ISO/IEC11801, EN 50173, EN 50174 NVP-74\_\_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 Classe
82223222031D1	Reel in Box	385x325x385	16,5	15	305	5608445020888	Dca - s1, d2, a1
82223222050D1	Drum	380x160x390	27	24,5	500	5608445000088	Dca - s1, d2, a1
82223222050C1	Drum	380x160x390	27	24,5	500	5608445037169	Cca - s1a,d1,a1
82223222100C1	Drum	570x570x300	61	57,3	1000	5608445037305	Cca - 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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datasheet n° b5\_7 | date: 06/23

approved by: Rute Araújo