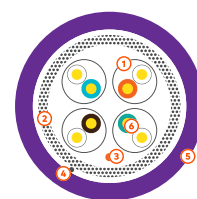


ENTERPRISE/DATA CENTER COPPER CABLE CAT6A S/FTP - LSZH -23 AWG - 0,56mm - 700 MHz

DESCRIPTION

Performance specified up to 500MHz and tested up to 700MHz. Foiled pair by pair and overall screen to improve the cable performance. 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 Jacket
- ② Rip-cord
- ③ Drain wire
- ④ Braid
- ⑤ Aluminum foil

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 S/FTP 700 MHz		
Conductor	Material	Solid Bare Copper		
	Nom O.D.	0,56 ± 0,005 mm		
		0,022 in		
Insulation	Material	Skin-foam-skin PE		
		1,330 ± 0,05 mm		
	Diameter	0,052 in		
Sheath		0,55 ± 0,05 mm		
		0,022 in		
		7,6 ± 0,5 mm		
	External O.D.	0,307 ± 0,019 in		
		LSZH (complies RoHS)		
	Material	Purple (RAL4005)		
	Color			
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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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) 250-500MHz - Impedance (Ω)	100 ± 15 100 ± 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	-	1,98	20,00	31,08	74,30	98,94	570,00	479,69	72,30	96,7	-	96,96	-	94,72
4	3,80	3,59	23,00	35,28	65,30	96,68	552,00	462,2	63,30	93,19	61,50	93,09	59,50	89,60
8	5,30	4,95	24,50	33,99	60,80	96,93	547,00	457,08	58,80	93,54	55,50	91,98	53,50	88,59
10	5,90	5,52	25,00	33,22	59,30	95,69	545,00	455,77	57,30	92,65	53,40	90,16	51,40	87,13
16	7,50	7,03	25,00	33,46	56,20	95,18	543,00	453,46	54,20	92,68	48,70	88,15	46,70	85,65
20	8,40	7,92	25,00	30,52	54,80	94,94	542,00	452,53	52,80	91,96	46,40	86,72	44,40	83,74
25	9,40	8,95	24,30	31,56	53,30	94,18	541,00	451,71	51,30	91,58	43,90	85,23	41,90	82,63
31.25	10,50	10,08	23,60	31,32	51,90	94,23	540,00	450,97	49,90	91,93	41,40	84,18	39,40	81,85
62.5	15,00	14,38	21,50	35,29	47,40	92,31	539,00	449,14	45,40	90,53	32,40	77,93	30,40	76,15
100	19,10	18,25	20,10	31,44	44,30	87,77	538,00	448,21	42,30	85,05	25,30	69,52	23,20	66,80
200	27,60	26,08	18,00	33,21	39,80	84,62	537,00	447,18	37,80	81,96	12,20	58,28	10,20	55,88
250	31,10	29,26	17,30	31,07	38,30	81,56	536,00	446,92	36,30	79,77	7,20	53,10	4,00	50,51
300	34,30	32,16	16,80	29,67	37,10	79,38	536,00	446,73	35,10	77,57	2,80	47,22	0,80	45,41
400	40,10	37,54	15,90	27,03	35,30	79,07	536,00	446,46	33,30	77,25	-4,80	39,29	-6,80	37,71
500	45,30	42,26	15,20	23,32	33,80	76,83	536,00	446,27	31,80	74,26	-12,00	34,57	-13,50	32,00
650*	-	47,50	-	23,80	-	70,20	-	446,01	-	69,10	-	22,70	-	21,60
700*	-	49,00	-	23,50	-	69,50	-	446,00	-	68,80	-	20,50	-	19,80

* Performance specified up to 500MHz and tested up to 700MHz

GWC = Guaranteed Worst Case // BT = barpa Typical

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datasheet n° b36_9 | date: 08/25

approved by: Ana Barbosa



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

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 S-FTP 700 MHz LSZH CU cable 4 pair 23 AWG Verified to ISO/IEC11801, EN 50173, EN 50174 CLASS (CPR)
NVP-74__m (produce date)

ORDER INFORMATION

Code	Type of package	Package Dimmension (mm)	Gross Weight (kg/item)	Net Weight (kg/item)	Quantity (m)	EAN	CPR Class
82223422050C1	Drum	Ø380x390	30,3	27,8	500	5608445013897	Cca - s1a, d1, a1
82223422050B2	Drum	Ø380x390	30,3	27,8	500	5608445037268	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.



CPR

Available in different CPR classes. Please specify your order.

25 YEARS WARRANTY

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).
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