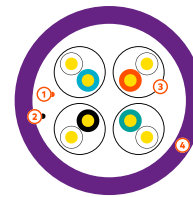


## ENTERPRISE/DATA CENTER COPPER CABLE CAT6 U/FTP - LSZH - 23 AWG - 0,56mm

### DESCRIPTION

Performance specified up to 250MHz and tested up to 550MHz. Decreasing length cable markings - Easy identification of remaining cable reduces installation time and cable scrap. Designed to Support all Class E protocols including 1GBASE-T. Support PoE, voice, video and Gigabit Ethernet.



- ① Drain Wire
- ② Rip-cord
- ③ Aluminum Foil
- ④ Outer Jacket

### APPLICABLE STANDARDS

#### Electrical Performance

- ISO/IEC 11801 • ISO/IEC 61156-5 • EN 50173 • EN 50288-5-1
- 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		CAT6 U/FTP		
Conductor	Material	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 0,022 in		
Sheath	External O.D.	7,3 ± 0,4 mm 0,287 ± 0,015 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  
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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 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
1-250MHz - Impedance (Ω)	100 ± 15	-
1-250MHz - Delay Skew (ns/100m)	12	≤ 45
DC Resistance (Ω/100m)	7,2	≤ 9,38
DC Conductor Resistance Unbalance (%)	0,5% in pair; 1,2% between pair	≤ 5,0
Unbalanced to Ground Capacitance (pf/100m)	100	≤ 330
1-250MHz - Velocity of Propagation (%) - NVP	74	-

**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	-	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	3,78	3,41	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	5,32	4,87	24,50	33,99	60,80	93,93	546,73	457,08	58,70	90,89	49,70	92,04	46,70	87,8
10	5,95	5,44	25,00	33,22	59,30	94,69	545,38	455,77	57,30	91,36	47,80	89,01	44,80	86,57
16	7,55	6,96	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	8,47	7,77	25,00	30,52	54,80	88,94	542,05	452,53	52,80	87,46	41,80	88,22	38,80	85,63
25	9,51	8,76	24,30	31,56	53,30	96,08	541,20	451,71	51,30	93,46	39,80	84,24	36,80	81,75
31.25	10,67	9,84	23,60	31,32	51,90	96,06	540,44	450,97	49,90	91,93	37,90	83,4	34,90	81,59
62.5	15,38	14,15	21,50	35,29	47,70	92,33	538,55	449,14	45,40	88,01	31,90	78,01	28,90	74,47
100	19,80	18,04	20,10	31,44	44,30	87,75	537,60	448,21	42,30	85,05	27,80	75,83	24,80	71,53
200	28,98	26,21	18,00	33,21	39,80	78,52	536,54	447,18	37,80	74,34	21,80	60,74	18,80	57,83
250	32,85	29,47	17,30	31,07	38,30	74,26	536,27	446,92	36,30	69,77	19,80	61,21	16,80	57,76
500*	-	42,26	-	23,32	-	72,83	-	446,27	-	70,26	-	42,92	-	39,76
550*	-	46,12	-	22,15	-	72,15	-	446,21	-	69,97	-	41,21	-	38,97

GWC = Guaranteed Worst Case // BT = barpa Typical



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### INSTALLATION

Temperature Range (Operation)	-40°C to +75°C	Temperature Range (Installation)	0°C to +50°C
Min. Bending Radius (Operation)	4D, D is the finished diameter	Max. Tensile Load (Installation)	100N

### CABLE MARK

barpa (code) category 6 U-FTP LSZH cable 4 pair 23 AWG Verified to ISO/IEC11801, EN 50173, EN 50174 CPR CLASS 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 Class
8222222030D1	Reel in Box	375x335x375	17	15	305	5608445014535	Dca - s1, d2, a1
8222222100D1	Drum	Ø570x325	53,5	49	1000	5608445014542	Dca - s1, d2, 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](mailto:info@barpa.eu) or in [www.barpa.eu](http://www.barpa.eu)

**datasheet n° b10\_04 | date: 01/25**  
approved by: Ana Barbosa