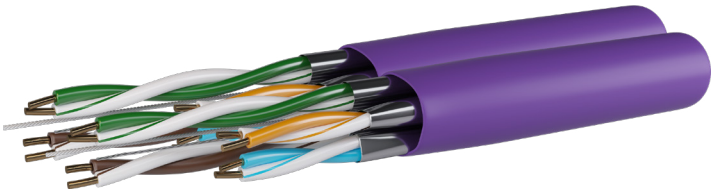
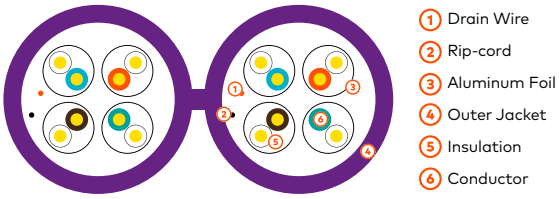
ENTERPRISE/DATA CENTER COPPER CABLE
DUPLEX CAT6A U/FTP - LSZH -23 AWG - 0,56mm - 700MHz

DESCRIPTION



• Performance tested up to 700MHz in independent lab Force Technology;
• Individual foil pairs with external S foil;
• 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.



25 YEARS WARRANTY · 700MHz · INDOOR · 23 AWG · ROHS · CE · CPR Dca

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		
Sheath	Thicknes	0,55 ± 0,05 mm		
		0,022 in		
	External O.D.	(7,4-16,0) ± 0.5 mm		
		(0,307 -0,629) ± 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

This document is authored and owned by barpa. It is forbidden to reproduce in whole or in part without mentioning its authorship, as well as modification of its content or context. All specifications are subject to change without notice. The pictures/drawings are merely illustrative.
More information: info@barpa.eu or in www.barpa.eu

datasheet nº b107_5 | date: 06/23
approved by: Rute Araújo

ENTERPRISE/DATA CENTER COPPER CABLE
DUPLEX 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)** 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 Condutor 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 II 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

This document is authored and owned by barpa. It is forbidden to reproduce in whole or in part without mentioning its authorship, as well as modification of its content or context. All specifications are subject to change without notice. The pictures/drawings are merely illustrative.
More information: info@barpa.eu or in www.barpa.eu

datasheet nº b107_5 | date: 06/23
approved by: Rute Araújo

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

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 (code) category 6A U-FTP 700 MHz LSZH CU Duplex cable 4 pair 23 AWG - 0,56mm Verified to ISO/IEC11801, EN 50173, EN 50174 CLASS CPR 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
82223222050C1-2	Drum	500x200x360	60	54,5	500	5608445019622	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.

CPR

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

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). For more informations go to our website.

This document is authored and owned by barpa. It is forbidden to reproduce in whole or in part without mentioning its authorship, as well as modification of its content or context. All specifications are subject to change without notice. The pictures/drawings are merely illustrative.
More information: info@barpa.eu or in www.barpa.eu

datasheet nº b107_5 | date: 06/23
approved by: Rute Araújo