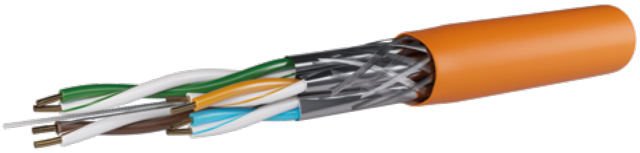
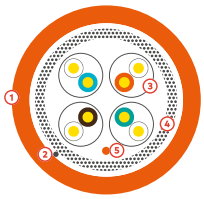
ENTERPRISE/DATA CENTER COPPER CABLE
CAT7 S/FTP - LSZH -23 AWG - 0,56mm

DESCRIPTION

• Performance specified up to 600MHz and tested up to 1000MHz;
• 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 F 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. Outer Jacket
2. Rip-cord
3. Al/Mylar
4. Braid
5. Drain wire

APPLICABLE STANDARDS

Electrical Performance:
• ISO/IEC 11801; • ISO/IEC 61156-5; • EN 50173; • EN 50288-4-1; 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		CAT 7 S/FTP		
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	Thickness	0,55 ± 0,05 mm		
		0,022 in		
	External O.D.	7,8 ± 0,5 mm		
		0,307 ± 0,019 in		
	Material	LSZH (complies RoHS)		
	Color	Orange (RAL2003)		
Rip-cord		Yes		
Core Color	Pair 1	White & Blue	Pair 2	White & Orange
	Pair 3	White & Green	Pair 4	White & Brown

More information: info@barpa.eu or in www.barpa.eu

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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)	≥ 80
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
1-100MHz - **Impedance (Ω)** 100-250MHz - **Impedance (Ω)** 250-600MHz - **Impedance (Ω)**	100 ± 15 100 ± 18 100 ± 25	-
1-600MHz - Delay Skew (ns/100m)	≤ 12	≤ 25
DC Conductor Resistance (Ω/100m)	≤ 7,2	≤ 9,38
DC Conductor Resistance Unbalance (%)	0,5% in pairs; 1,2% between pairs	≤ 2,0
Unbalance to Ground Capacitance (pf/100m)	≤ 100	≤ 330
1-600MHz - **Velocity of Propagation (%)** - NVP	74	-
Insulation Resistance (MΩ.km)	> 5000	-

TECHNICAL PERFORMANCE (100m || 328 ft.)

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	2,10	1,96	20,00	32,15	78,00	98,22	570,00	479,69	75,00	96,47	78,00	92,01	75,00	89,29
4	3,74	3,55	23,00	34,86	78,00	98,45	552,00	462,20	75,00	96,63	78,00	94,10	75,00	90,15
8	5,24	4,92	24,50	36,92	78,00	99,07	546,70	457,08	75,00	95,11	75,90	92,04	72,90	87,80
10	5,86	5,49	25,00	40,24	78,00	98,60	545,40	455,77	75,00	95,06	74,00	89,01	71,00	86,57
16	7,41	7,01	25,00	39,79	78,00	99,49	543,00	453,46	75,00	96,52	69,60	87,03	66,90	83,49
20	8,29	7,91	25,00	42,29	78,00	97,23	542,00	452,53	75,00	95,86	68,00	88,22	65,00	85,63
25	9,29	8,92	24,30	41,44	78,00	97,96	541,20	451,71	75,00	95,89	66,00	84,24	63,00	81,75
31.25	10,41	10,05	23,60	41,75	78,00	98,64	540,44	450,97	75,00	96,82	64,10	83,40	61,10	81,59
62.5	14,88	14,39	21,50	36,67	75,50	96,18	538,60	449,14	72,50	93,18	58,10	78,01	55,10	74,49
100	19,02	18,22	20,10	37,54	72,40	97,26	537,60	448,21	69,40	93,39	54,00	75,83	51,00	71,53
200	27,47	26,02	18,00	33,34	67,90	96,49	536,50	447,18	64,90	94,12	48,00	60,74	45,00	57,83
250	30,97	29,18	17,30	37,69	66,40	95,04	536,30	446,92	63,40	91,54	46,00	61,21	43,00	57,76
300	34,19	32,10	17,30	29,27	65,20	92,84	536,10	446,73	62,20	90,28	44,50	58,66	41,50	55,13
400	40,01	37,50	17,30	30,36	63,40	91,83	535,80	446,46	60,40	89,70	42,00	56,20	39,00	53,20
500	45,26	42,18	17,30	27,87	61,90	94,49	535,60	446,27	58,90	91,54	40,00	52,00	37,00	49,00
600	50,10	44,19	17,30	25,62	60,70	83,14	535,50	446,07	57,70	81,92	38,40	50,40	35,40	47,40
*800	-	55,92	-	23,62	-	75,90	-	535,27	-	72,90	-	47,90	-	44,90
*1000	-	63,93	-	19,62	-	73,40	-	535,14	-	72,40	-	45,00	-	42,00

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 (Instalaltion)	100N

CABLE MARK

barpa (code) category 7 S-FTP LSZH cable 4 pair 23 AWG Verified to ISO/IEC 61156-5, EN 50288-4 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	CPR Classe
82224421030C1	Drum	380x160x240	19	17.5	305	5608445014481	Cca - s1a, d1, a1
82224421050C1	Drum	380x160x390	31	28.5	500	5608445014498	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. This cable Cat.7 SFTP is orange.

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). For more informations go to our website.

More information: info@barpa.eu or in www.barpa.eu