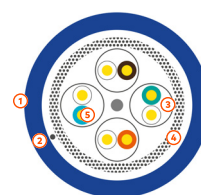




DATA CENTER COPPER CABLE 40G 2000MHZ CAT8.1 S/FTP - LSZH - 22 AWG

DESCRIPTION

Performance specified up to 2000MHz. 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 I protocols including 25/40GBASE-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 Conductor

APPLICABLE STANDARDS

Electrical Performance

- ISO/IEC 11801 • EN 50173 • EN 50288-12-1
- ANSI/TIA-568.2-D

Reaction to Fire

- IEC 60332-1 • IEC 60754-2 • IEC 61034-2 • EN 50399 • EN 50575

PoE

- IEEE 802.3bt PoE Type 1, 2, 3 and 4



B2ca

CONSTRUCTION

Category		CAT 8.1 S/FTP		
Conductor	Material	Solid Bare Copper		
	Nom O.D.	0,630 ± 0,010mm		
		0,0248 in		
Insulation	Material	Skin-foam-skin PE		
	Diameter	1,58 ± 0,10 mm		
Sheath	Thickness	0,60 ± 0,10 mm		
	External O.D	8,30 ± 0,50 mm		
	Material	LSZH (complies RoHS)		
	Color	Blue (RAL 5002)		
	Inner Screening	Material	Al/Mylar	
Outer Screening	Material	Tinned Copper		
	Coverage	≥60%		
Ripcord	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)	≥ 9,0
Before Aging Elongation (%)	≥ 100
Aging Period (°C x hrs)	100°C x 24h x 7d
After Aging Tensile Strength (Mpa)	≥ 8,0
After Aging Elongation (%)	≥ 70
Cold Bend (-20±2°C x 4h)	15xCable O.D., No visible cracks

ELECTRICAL CHARACTERISTICS (20°C)

	Typical barpa values	Standard values
1-100MHz - Impedance (Ω) 100-250MHz - Impedance (Ω) 250-2000MHz - Impedance (Ω)	100±5 100±22 100±25	-
1-2000MHz - Delay Skew (ns/100m)	≤25	≤45
DC Conductor Resistance (Ω/100m)	≤6,98	≤9,5
DC Conductor Resistance Unbalance (%)	≤2% in pairs; ≤4% between pairs	≤2,0
Unbalance to Ground Capacitance (pf/100m)	≤120	≤120
1-2000MHz - Velocity of Propagation (%) - NVP	72	-
Insulation Resistance (MΩ.km)	≥6000	≥5000

TECHNICAL PERFORMANCE (30m || 98 ft.)

Frequency (MHz)	Return Loss ≥ dB		Attenuation ≤ dB		NEXT ≥ dB		ACRF ≥ dB		PS NEXT ≥ dB		PS ACRF ≥ dB	
	BT	GWC	BT	GWC	BT	GWC	BT	GWC	BT	GWC	BT	GWC
1	19,0	22,1	3,0	2,5	65,0	81	65,0	92,4	62,0	77	62,0	89,4
4	19,0	29	3,0	2,5	63,8	71,8	59,9	73,4	60,5	70,5	56,9	69,4
8	19,0	29	3,0	2,5	58,9	66,9	53,9	64,3	55,6	65,6	50,9	63,3
10	19,0	29	3,0	2,5	57,3	64,3	52,0	62,4	54,0	63	49,0	59,4
16	18,0	28	3,0	2,5	53,9	60,9	47,9	58,3	50,6	59,6	44,9	55,3
20	17,5	27,5	3,0	2,5	52,3	59,3	45,9	56,4	49,0	58	42,9	53,4
25	17,0	26	3,2	2,5	50,7	57,7	44,0	54,4	47,3	56,3	41,0	51,4
31,25	16,5	25,5	3,6	2,5	49,1	56,1	42,1	52,5	45,7	54,7	39,1	49,5
62,5	16,0	25	5,1	3,6	44,0	51	36,0	46,5	40,6	49,6	33,0	43,5
100	16,0	25	6,5	4,7	40,5	45,5	32,0	42,4	37,1	44,1	29,0	39,4
200	14,3	21,4	9,3	6,9	35,3	40,3	25,9	36,4	31,9	38,9	22,9	33,4
250	13,4	20,2	10,4	7,8	33,6	38,6	24,0	34,4	30,2	37,2	21,0	31,4
300	12,7	19,3	11,5	8,6	32,3	35,3	22,4	32,9	28,8	33,8	19,4	29,9
400	11,6	17,8	13,3	10,1	30,1	33,1	19,9	30,4	26,6	30,6	16,9	27,4
500	10,7	16,6	15,0	11,4	27,9	30,9	18,0	28,4	24,8	28,3	15,0	25,4
600	10,0	15,7	16,5	12,6	25,7	28,7	16,4	26,8	22,7	26,1	13,4	23,8
1000	8,0	15	22,0	17	19,3	22,3	12,0	22,4	16,5	19,4	9,0	19,4
1500	8,0	15	27,7	21,6	13,9	16,9	8,4	13,9	11,2	12,2	5,4	12,9
2000	8,0	11	32,7	25,7	9,8	12,8	5,9	10,4	7,3	9	2,9	8,4

GWC = Guaranteed Worst Case // BT = barpa Typical

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

datasheet nº b154_3 | date: 04/25

approved by: Ana Barbosa



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INSTALLATION

Temperature Range (Operation)	-20°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 MARKING

barpa 82226477030B2 category 8.1 S-FTP 40Gbps 2000MHz PoE 100W LSZH CU cable 4 pair 22 AWG Verified to ISO/IEC11801, ISO/IEC 61156-9, EN 50173, CLASS B2ca-s1a,d1,a1 NVP-72 ___m (produce date)

ORDER INFORMATION

Code	Type of package	Size (mm)	Gross Weight (kg)	Net Weight (kg)	Quantity (m)	EAN	CPR Class
82226477030B2	Reel	380x380x300	27	25	305	5608445041869	B2ca-s1a,d1,a1

CUSTOMIZATION - HIGGS BY BARPA

TAILOR MADE

You can order this customized, what you need to consider:

Choose the cable length you want

Choose the type of conector type you want (keystone jack or RJ45 field plug)





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CAT8.1 S/FTP - LSZH - 22 AWG

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.



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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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