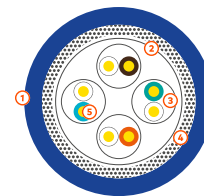
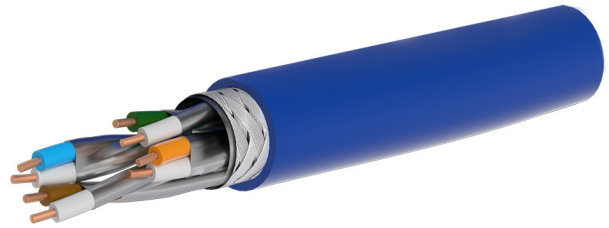




DATA CENTER COPPER CABLE 40G 2000MHZ CAT8.1 SF/FTP - LSZH - 22 AWG

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 Al/Mylar
- 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.



CONSTRUCTION

Category		CAT 8.1 SF/FTP		
Conductor	Material	100% Cobre		
	Nom O.D.	0,620 ± 0,010mm 0,0224 in		
Insulation	Material	FOPE		
	Diameter	1,56 ± 0,1 mm		
	Thickness	0,65 ± 0,05 mm		
Sheath	External O.D	8,20 ± 0,35mm		
	Material	LSZH (complies RoHS)		
	Color	Blue (RAL 5002)		
Core Color	Pair 1	White & Brown	Pair 2	White & Blue
	Pair 3	White & Orange	Pair 4	White & Green



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

SHEATH PHYSICAL PROPERTIES

Before Aging Tensile Strength (Mpa)	≥ 10,0
Before Aging Elongation (%)	≥ 125
Aging Period (°C x hrs)	100°C ±2°C x 24h x 7d
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
1-100MHz - Impedance (Ω)	100±15	
100-250MHz - Impedance (Ω)	100±22	-
250-2000MHz - Impedance (Ω)	100±25	
1-2000MHz - Delay Skew (ns/100m)	≤45	≤45
DC Conductor Resistance (Ω/100m)	≤6,3	≤9,5
DC Conductor Resistance Unbalance (%)	≤0,5% in pairs; ≤2,0% between pairs	≤2,0% in pairs; ≤5,0% between pairs
Unbalance to Ground Capacitance (pf/100m)	≤110	≤120
1-2000MHz - Velocity of Propagation (%) - NVP	76	-
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	19,1	22,1	3	2,5	65	81	72,4	92,4	62	77	69,4	89,4
4	21	29	3	2,5	63,8	71,8	60,4	73,4	60,5	70,5	57,4	69,4
8	21	29	3	2,5	58,9	66,9	54,3	64,3	55,6	65,6	51,3	63,3
10	21	29	3	2,5	57,3	64,3	52,4	62,4	54	63	49,4	59,4
16	20	28	3	2,5	53,9	60,9	48,3	58,3	50,6	59,6	45,3	55,3
20	19,5	27,5	3	2,5	52,3	59,3	46,4	56,4	49	58	43,4	53,4
25	19	26	3	2,5	50,7	57,7	44,4	54,4	47,3	56,3	41,4	51,4
31,25	18,5	25,5	3	2,5	49,1	56,1	42,5	52,5	45,7	54,7	39,5	49,5
62,5	18	25	4,1	3,6	44	51	36,5	46,5	40,6	49,6	33,5	43,5
100	18	25	5,2	4,7	40,5	45,5	32,4	42,4	37,1	44,1	29,4	39,4
200	14,4	21,4	7,4	6,9	35,3	40,3	26,4	36,4	31,9	38,9	23,4	33,4
250	13,2	20,2	8,3	7,8	33,6	38,6	24,4	34,4	30,2	37,2	21,4	31,4
300	12,3	19,3	9,1	8,6	32,3	35,3	22,9	32,9	28,8	33,8	19,9	29,9
400	10,8	17,8	10,6	10,1	30,1	33,1	20,4	30,4	26,6	30,6	17,4	27,4
500	9,6	16,6	11,9	11,4	27,9	30,9	18,4	28,4	24,8	28,3	15,4	25,4
600	8,7	15,7	13,1	12,6	25,7	28,7	16,8	26,8	22,6	26,1	13,8	23,8
1000	8	15	17,5	17	19,3	22,3	12,4	22,4	15,9	19,4	9,4	19,4
1500	8	15	22,1	21,6	13,9	16,9	8,9	13,9	10,2	12,2	5,9	12,9
2000	8	11	26,2	25,7	9,8	12,8	6,4	10,4	6	9	3,4	8,4

GWC = Guaranteed Worst Case // BT = barpa Typical

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datasheet nº b154_0 | date: 11/23
approved by: Ana Barbosa



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

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 (product code) 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,d0,a1 NVP-76 (produce date)

ORDER INFORMATION

Code	Type of package	Size (mm)	Gross Weight (kg)	Net Weight (kg)	Quantity (m)	EAN	CPR Class
82226427030B2	Reel	400x400x300	25	23	305	5608445038647	B2ca-s1a,d0,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)





DATA CENTER COPPER CABLE 40G 2000MHZ
CAT8.1 SF/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.



Explore more of our Draco solution.



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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