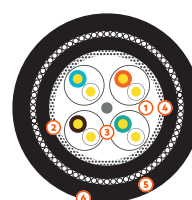




COPPER CABLE CAT6A S/FTP SWA LSZH-PE - 23 AWG - 0,56mm

DESCRIPTION

Robust SWA armouring for direct burial and mechanical protection in harsh environments. Performance specified up to 500 MHz. Individual foil shielding on each pair with overall aluminium braid (S/FTP) for enhanced EMI protection. Supplied with decreasing length cable marking for easy identification and reduced installation time and waste.



- 1 Mylar
- 2 Braid
- 3 Drain Wire
- 4 Inner Jacket
- 5 Outer Jacket
- 6 Armored

APPLICABLE STANDARDS

Electrical Performance

• ISO/IEC 11801 • EN 50173 • EN 50174 • ANSI/ TIA-568-D.2

PoE

• IEEE 802.3bt PoE Type 1, 2, 3 and 4



CONSTRUCTION

Category		CAT6A S/FTP			
Conductor	Material	Solid Bare Copper			
	Nom O.D.	0,560 ± 0,005 mm			
		0,022 in			
Insulation	Material	Foamed PE			
	Diameter	1,34 ± 0,05 mm			
		0,053 in			
Outer Sheath	Thickness	1,8 ± 0,20 mm			
		0,071 ± 0,020 in			
	External O.D.	12,0 ± 0,60 mm			
Inner Sheath		0,472 in ± 0,019 in			
	Material	PE (complies RoHS)			
	Color	Black (RAL9005)			
Armor	External O.D.	8,20 ± 0,50 mm			
		0,323 ± 0,020 in			
	Material	LSZH			
Rip-cord	Color	Black (RAL9004)			
	Thickness	0,9 mm			
	Material	Galvanized Steel Wire Spiral			
Core Color	Coverage	≥90%			
		No			
	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)	≥ 9,65
Before Aging Elongation (%)	≥ 300
Aging Period (°C x hrs)	100 x 48
After Aging Elongation (%)	≥ 75
Cold bend (-20±2°C x 4h)	8xCable O.D., No visible cracks

ELECTRICAL CHARACTERISTICS (20°C)

	Typical barpa values	Standard values
1-500MHz - Impedance (Ω)	100 ± 15	-
1-500MHz - Delay Skew (ns/100m)	≤ 44	≤ 45
DC Resistance (Ω/100m)	≤ 9,5	≤ 9,38
DC Conductor Resistance Unbalance (%)	5%	≤ 5,0
Unbalanced to Ground Capacitance (pf/100m)	≤ 160	≤ 330
1-500MHz - Velocity of Propagation (%) - NVP	70	-
Insulation Resistance (MΩ.km)	> 5000	-

TECHNICAL PERFORMANCE (100m || 328ft.)

Frequency (MHz)	Attenuation ≤ dB		Return Loss ≥ dB		NEXT ≥ dB		PSNEXT ≥ dB		ELFEXT ≥ dB		PSELFEXT ≥ dB	
	GWC	BT	GWC	BT	GWC	BT	GWC	BT	GWC	BT	GWC	BT
1	3,0	1,8	19,1	22	65,0	100	62,0	95	64,2	95	61,2	90
4	3,5	3,2	21,0	30	64,1	100	61,8	95	52,1	95	49,1	90
8	5,0	3,6	21,0	30	59,4	95	57,0	90	46,1	90	43,1	85
10	5,5	5,0	21,0	30	57,8	95	55,5	90	44,2	90	41,2	85
16	7,0	6,2	20,0	35	54,6	95	52,2	90	40,1	90	37,1	85
20	7,8	7,1	19,5	35	53,1	95	50,7	90	38,2	90	35,2	85
25	8,8	8,0	19,0	35	51,5	95	49,1	90	36,2	90	33,2	85
31,25	9,8	8,9	18,5	33	50,0	90	47,5	85	34,3	85	31,3	80
62,5	14,0	12,8	16,0	33	45,1	90	42,7	85	28,3	85	25,3	80
100	18,0	16,2	14,0	30	41,8	90	39,3	85	24,2	85	21,2	80
200	26,1	23,1	11,0	30	36,9	85	34,3	80	18,2	80	15,2	75
250	29,5	26,1	10,0	25	35,3	85	32,7	80	16,2	80	13,2	75
300	32,7	28,7	9,2	25	34,0	80	31,4	75	14,6	75	11,6	70
400	38,4	33,3	8,0	20	29,9	80	27,1	75	12,1	75	9,1	70
500	43,8	37,5	8,0	20	26,7	80	23,8	75	10,2	75	7,2	70

GWC = Guaranteed Worst Case // BT = barpa Typical



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INSTALLATION

Temperature Range (Operation)	-40°C to +80°C	Temperature Range (Installation)	-40°C to +60°C
Min. Bending Radius (Operation)	20x cable diameter	Max. Tensile Load (Installation)	100N

CABLE MARK

barpa (code) category 6A S-FTP Armored SWA LSZH+PE CU cable 4 pair 23 AWG Verified to ISO/IEC11801, EN 50173, EN 50174 CLASS Fca
NVP-70__m (produce date)

ORDER INFORMATION

Code	Description	Type of package	Size package (mm)	Gross Weight (kg/item)	Net Weight (kg/item)	Quantity (m)	EAN CODE
82223964050	Cable Cat.6A S/FTP SWA LSZH-PE	Drum	570x200x460	134	127	500	5608445045232

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. The Cat.6A S/FTP SWA LSZH-PE cable is black.



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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datasheet n° b193_1 | date: 09/26

approved by: Ana Barbosa