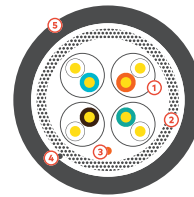


DESCRIPTION

- Performance specified up to 500MHz;
- 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.



- ① Aluminum Foil
- ② Braid
- ③ Drain Wire
- ④ Rip-cord
- ⑤ Outer Jacket



APPLICABLE STANDARDS

Electrical Performance:

- ISO/IEC 11801; • ISO/IEC 61156-5; • EN 50173; • EN 50288-10-1;
- 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.	0,56 ± 0,005 mm 0,022 in		
Insulation	Material	Skin-foam-skin PE		
	Diameter	1,330 ± 0,05 mm 0,052 in		
	Thickness	0,55 ± 0,05 mm 0,022 in		
Sheath	External O.D.	7,6 ± 0,5 mm 0,307 ± 0,019 in		
		Material	LDPE (complies RoHS)	
	Color	Black (RAL9005)		
Rip-cord	Yes			
Core Color	Pair 1	White/Blue	Pair 2	White/Orange
	Pair 3	White/Green	Pair 4	White/Brown



ENTERPRISE/DATA CENTER COPPER CABLE
CAT6A S/FTP - PE - 23 AWG - 0.56mm

SHEATH PHYSICAL PROPERTIES

Before Aging Tensile Strength (Mpa)	≥ 10,0
Before Aging Elongation (%)	≥ 350
Aging Period (°C x hrs)	100°C x24hx7d
After Aging Elongation (%)	≥ 300
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)	100 ± 15	-
250-500MHz - Impedance (Ω)	100 ± 22	-
1-500MHz - Delay Skew (ns/100m)	≤ 12	≤ 45
DC Resistance (Ω/100m)	≤ 7,2	≤ 9,38
DC Conductor 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 || 328ft.)

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	-	1,98	20,00	31,08	74,30	98,94	570,00	479,69	72,30	96,7	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	96,93	547,00	457,08	58,80	93,54	49,70	92,04	46,70	87,8
10	5,90	5,52	25,00	33,22	59,30	95,69	545,00	455,77	57,30	92,65	47,80	89,01	44,80	86,57
16	7,50	7,03	25,00	33,46	56,20	95,18	543,00	453,46	54,20	92,68	43,70	87,03	40,70	83,49
20	8,40	7,92	25,00	30,52	54,80	94,94	542,00	452,53	52,80	91,96	41,80	88,22	38,80	85,63
25	9,40	8,95	24,30	31,56	53,30	94,18	541,00	451,71	51,30	91,58	39,80	84,24	36,80	81,75
31,25	10,50	10,08	23,60	31,32	51,90	94,23	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	92,31	539,00	449,14	45,40	90,53	31,90	78,01	28,90	74,47
100	19,10	18,25	20,10	31,44	44,30	87,77	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	84,62	537,00	447,18	37,80	81,96	21,80	60,74	18,80	57,83
250	31,10	29,26	17,30	31,07	38,30	81,56	536,00	446,92	36,30	79,77	19,80	61,21	16,80	57,76
300	34,30	32,16	16,80	29,67	37,10	79,38	536,00	446,73	35,10	77,57	18,30	58,66	15,30	55,13
400	40,10	37,54	15,90	27,03	35,30	79,07	536,00	446,46	33,30	77,25	15,80	43,6	12,80	41,58
500	45,30	42,26	15,20	23,32	33,80	76,83	536,00	446,27	31,80	74,26	13,80	42,92	10,80	39,76

GWC = Guaranteed Worst Case // BT = barpa Typical



ENTERPRISE/DATA CENTER COPPER CABLE CAT6A S/FTP - PE - 23 AWG - 0.56mm

INSTALLATION

Temperature Range (Operation)	-40°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 S-FTP PE cable 4 pair 23 AWG Verified to ISO/IEC11801, EN 50173, EN 50174 NVP-74 ___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
82223434050	Cable Cat.6A S/FTP PE	Drum	380x160x390	29,5	27,0	500	5608445000095

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 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° b6_4