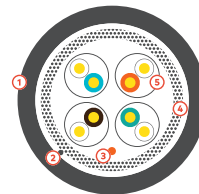


DESCRIPTION

- Performance specified up to 250MHz and tested up to 550MHz;
- Decreasing length cable markings - Easy identification of remaining cable reduces installation time and cable scrap;
- Designed to Support all Class E protocols including 1GBASE-T;
- S foil to improve the cable performance;
- Support PoE, voice, video and Gigabit Ethernet.



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



APPLICABLE STANDARDS

Electrical Performance:

- ISO/IEC 11801; • ISO/IEC 61156-5; • EN 50173; • EN 50288-5-1;
- ANSI/ TIA-568-D;

PoE:

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

CABLE PROPERTIES

Category	CAT6 S/FTP			
Conductor	Material	Solid Bare Copper 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 0,299 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
CAT6 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 x24hx10d
After Aging Elongation (%)	≥ 300
Cold bend (-20±2°C x 4h)	8 x Cable O.D.; No visible cracks

ELECTRICAL CHARACTERISTICS (20°C)

	Typical barpa values	Standard values
1-250MHz - Impedance (Ω)	100 ± 15	-
1-250MHz - Delay Skew (ns/100m)	12	≤ 45
DC Resistance (Ω/100m)	7,2	≤ 9,38
DC Conductor Resistance Unbalance (%)	0,5% in pair; 1,2% between pair	≤ 5,0
Unbalanced to Ground Capacitance (pf/100m)	100	≤ 330
1-250MHz - Velocity of Propagation (%) - NVP	74	-

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	93,94	570,00	479,69	72,30	91,7	68,00	92,01	65,00	89,29
4	3,78	3,59	23,00	35,28	65,30	96,68	552,00	462,2	63,30	93,19	56,00	94,1	53,00	90,15
8	5,32	4,95	24,50	33,99	60,80	93,93	546,73	457,08	58,70	90,89	49,90	92,04	46,90	87,8
10	5,95	5,52	25,00	33,22	59,30	94,69	545,38	455,77	57,30	91,36	48,00	89,01	45,00	86,57
16	7,55	7,03	25,00	33,46	56,20	93,18	543,00	453,46	54,20	90,17	43,90	87,03	40,90	83,49
20	8,47	7,92	25,00	30,52	54,80	88,94	542,05	452,53	52,80	87,46	42,00	88,22	39,00	85,63
25	9,51	8,95	24,30	31,56	53,30	96,08	541,20	451,71	51,30	93,46	40,00	84,24	37,00	81,75
31,25	10,67	10,08	23,60	31,32	52,00	96,06	540,44	450,97	49,90	91,93	38,10	83,4	35,10	81,59
62,5	15,38	14,38	21,50	35,29	47,40	92,33	538,55	449,14	45,40	88,01	32,10	78,01	29,10	74,47
100	19,80	18,25	20,10	31,44	44,30	87,75	537,60	448,21	42,30	85,05	28,00	75,83	25,00	71,53
200	28,98	26,08	18,00	33,21	39,80	78,52	536,54	447,18	37,80	74,34	22,00	60,74	19,00	57,83
250	32,85	29,26	17,30	31,07	38,30	74,26	536,27	446,92	36,30	69,77	20,00	61,21	17,00	57,76
500*	-	42,26	-	23,32	-	72,83	-	446,27	-	70,26	-	42,92	-	39,76
550*	-	46,12	-	22,15	-	72,15	-	446,21	-	69,97	-	41,21	-	38,97

GWC = Guaranteed Worst Case // BT = barpa Typical



ENTERPRISE/DATA CENTER COPPER CABLE CAT6 S/FTP - PE - 23 AWG - 0,56mm

INSTALLATION

Temperature Range (Operation)	-40°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 MARK

barpa (product code) category 6 S-FTP PE cable 4 pair 23 AWG Verified to ISO/IEC11801, EN 50173, EN 50174 CLASS CPR NVP-74 ___m (produce date)

ORDER INFORMATION

Code	Description	Type of package	Size package (m)	Gross Weight (kg/item)	Net Weight (kg/item)	Quantity (m)	EAN CODE
82222434050	Cable Cat.6 S/FTP PE	Drum	380x160x390	27	24,5	500	5608445000187

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, and the 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° b12_4