

DESCRIPTION

Performance specified up to 500 MHz. Foil shielding on each pair (U/FTP) to reduce crosstalk and external interference. Supplied with decreasing length cable marking for easy identification and reduced installation time and waste Designed to support all Class EA protocols including 10GBASE-T. Suitable for PoE, PoE+, PoE++ and 4PPoE applications. Steel wire armouring (SWA) provides mechanical protection for direct burial and harsh environments.



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 U/F	TP				
	Material	Solid Bare Copper					
Conductor	Nom O.D.		0,560 ± 0,005 mm				
	Nom O.D.		0,022 in				
	Material	Foamed PE					
Insulation	Diameter -		1,34 ± 0,05 mm				
	Diameter		0,053 in				
	Thickness -	1,8 ± 0,20 mm					
	THICKNESS						
Outer Sheath	External O.D.	11,9 ± 0,60 mm					
Outer Sneath		0,469 ± 0,024 in					
	Material	PE (complies RoHS)					
	Color	Black (RAL9005)					
	External O.D.		8,10 ± 0,50 mm				
Inner Sheath	External O.D.		0,319 ± 0,020 in				
inner Snedth	Material	LSZH					
	Color	Black (RAL9004)					
	Thickness	0,9 mm					
Armor	Material	Galvanized Steel Wire Spiral					
	Coverage	≥90%					
Rip-cord		No					
C C-l	Pair 1	White & Blue / Blue	Pair 2	White & Orange / Orang			
Core Color	Pair 3	White & Green / Green	Pair 4	White & Brown / Brown			



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)	≤ 45	≤ 45	
DC Resistance ($\Omega/100$ m)	≤ 9,5	≤ 9,38	
DC Condutor Resistance Unbalance (%)	0,5% in pairs; 1,2% between pairs	≤ 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 II 328ft.)

Frequency (MHz)	Attenu ≤ c			n Loss dB	NEX	T ≥ dB	PSNEX	T ≥ dB	ACRF	≥ dB	PSACR	F≥ dB
	GWC	ВТ	GWC	BT	GWC	ВТ	GWC	BT	GWC	ВТ	GWC	ВТ
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 = Guard	anteed Wor	st Case //	BT = barpa	Typical								



INSTALLATION

Temperature Range (Operation) -20°C to +80°C		Temperature Range (Installation)	0°C to +60°C	
Min. Bending Radius (Operation)	20× cable diameter	Max. Tensile Load (Installation)	100N	

CABLE MARK

barpa (code) category 6A U-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
82223864050	Cable Cat.6A U/FTP SWA LSZH-PE	Drum	570x200x460	132	125	500	5608445045225

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.