

The Giganet Category 7A 1000Mhz S/FTP LSOH and PVC cable has been designed and manufactured to exceed TIA/EIA 568-B 2.1, ISO /IEC 11801: 2002 and CENELEC performance requirements. The cable is ideal for 10 Gigabit networks.

Each cable consists of 4 pairs individually wrapped in a covering of high quality, strong, aluminium/polyester foil tape providing an individual screen for each pair. These sub units are then cabled together, with the pairs set to different lay lengths to ensure optimum performance, an overall braid screen is applied to provide further immunity to outside noise and to mitigate any risk of alien cross talk.

The CAT7A system supports emerging and convergence applications, performance and ease of termination.



CABLE CHARACTERISTICS

Low Smoke Zero Halogen Jacket

23 AWG Conductors

Individual foil pairs with overall braid screen

PRODUCT INFORMATION

Part Number	Product Description
GN-C7A-S/FTP-LSOH	Giganet Category 7A Solid S/FTP LSOH Cable - 305m drum

Category	S/FTP-CAT7A-4P-LSZH-AM30												
Standard	ISO/IEC 61156-5;EN 50288-4												
Conductor	Material	SOLID-Bare Copper											
	Nom.O.D.(mm)	0.580	up +0.005 down -0.005										
Insulation	Material	Skin-foam-skin PE											
	Diameter	1.350±0.05 mm											
Inner Screening Material	Al/Mylar	Drain wire	Yes										
Outer Screening Material	Aluminum-magnesium alloy	Coverage	≥30%										
Sheath	Thickness	0.55±0.05 mm							Technical Performance (100m):				
	External O.D.	7.8±0.5 mm							Frequency (MHz)	RL ≥dB	ATT ≤dB	NEXT ≥dB	PHASE DELAY ≤ns
	Surface	Clean		1.0	20.0	—	78.0	570.0					
	Material	LSZH(complies RoHS)		4.0	23.0	3.74	78.0	552.0					
	Color	TBD		8.0	24.5	5.24	78.0	546.7					
Core Color	1 White/Blue	2 White/Orange		10.0	25.0	5.86	78.0	545.4					
		3 White/Green		16.0	25.0	7.41	78.0	543.0					
	3 White/Green	4 White/Brown		20.0	25.0	8.29	78.0	542.0					
				25.0	24.3	9.29	78.0	541.2					
		Black		31.25	23.6	10.41	78.0	540.4					
Packing	Drum		62.5	21.5	14.88	75.5	538.6						
Packing length	305±1.0m		100	20.1	19.02	72.4	537.6						
Rip-cord	Yes		150	18.9	23.56	69.8	536.9						
Sheath Physical Properties	Before Aging	Tensile Strength (Mpa)	≥10.0	200	18.0	27.47	67.9	536.5					
		Elongation (%)	≥125	250	17.3	30.97	66.4	536.3					
	Aging Period (°C×hrs)	100°C×24h×7d		300	17.3	34.19	65.2	536.1					
	After Aging	Tensile Strength (Mpa)	≥8.0	600	17.3	50.10	60.7	535.5					
		Elongation (%)	≥100	700	14.2	54.63	59.7	535.4					
Cold bend (-20±2°C×4h) 8×Cable O.D., No visible cracks			1000	13.1	66.93	57.3	535.1						
Electrical Characteristics (20°C)	Impedance(Ω) : (1-100MHz)		100±15Ω	Frequency (MHz)	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB						
	(100-250MHz)		100±18Ω	1	75.0	78.0	75.0						
	(250-1000MHz)		100±25Ω	4	75.0	78.0	75.0						
	Delay Skew (ns/100m)		≤25	8	75.0	75.9	72.9						
	Velocity of Propagation (%)		74	10	75.0	74.0	71.0						
	unbalanced-to-ground capacitance (pf/100m) max		330	16	75.0	69.9	66.9						
	DC Resistance (Ω/100m) max		9.38	20	75.0	68.0	65.0						
DC Conductor Resistance Unbalanced (%) max		2.0	25	75.0	66.0	63.0							
			31.25	75.0	64.1	61.1							
			62.5	72.5	58.1	55.1							
			100	69.4	54.0	51.0							
			150	66.8	50.2	47.2							
			200	64.9	48.0	45.0							
			250	63.4	46.0	43.0							
			300	62.2	44.5	41.5							
			600	57.7	38.4	35.4							
			700	56.7	37.1	34.1							
			1000	54.4	34.0	31.0							