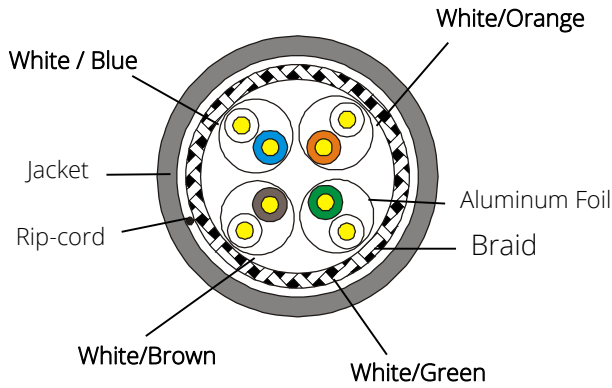


The Giganet Category 6A 500Mhz S/FTP LSOH cable has been designed and manufactured to exceed ISO/IEC 11801-1:2017 (Ed. 1.0) / ISO/IEC 11801-2:2017 (Ed. 1.0) EN 50173-1:2018 / EN 50173-2:2018 TIA-568.2-D:2018 performance requirements. The cable is ideal for 10 Gigabit networks. Each cable consists of 4 pairs individually wrapped in a covering of high quality, strong, Aluminum-magnesium 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 Cat 6A system supports emerging and convergence applications, performance and ease of termination.



Technical Specifications

Conductor	Material	Solid-Bare Copper				
	Nom.O.D.(mm)	0.570	<table border="1"> <tr> <td>UP</td> <td>+0.005</td> </tr> <tr> <td>Down</td> <td>-0.005</td> </tr> </table>	UP	+0.005	Down
UP	+0.005					
Down	-0.005					
Insulation	Material	Skin-foam-skin PE				
	Diameter	1.330±0.05 mm				
Inner Screening Material	AL/Mylar					
Outer Screening Material	Aluminum-magnesium alloy 0.12mm	Coverage	≥30%			
	Thickness	0.55±0.05 mm				
Sheath	External O.D.	7.5±0.5 mm				
	Surface	Clean				
	Material	LSOH(complies RoHS)				
	Color	Purple				
	Letter height	3.0±0.3mm				
Surface Printing	Color	Black				
	Print error & Space	≤±0.5% , 1m				
	Core Color	1 White- Blue /Blue	2 White-Orange /Orange			
3 White- Green /Green		4 White- Brown /Brown				
Rip-cord	Yes	Drain wire	Yes			
Sheath Physical Properties	Before Aging Tensile Strength (Mpa) ≥13.5 Elongation(%) ≥150					
	Aging Period(°C×hrs) 100°C×24h×10d					
	After Aging Tensile Strength(Mpa) ≥12.5 Elongation(%) ≥125					
	Cold bend (-20±2°C×4h) 8×Cable O.D.°C No visible cracks					



Ordering Information

Part Number	Description
GN-C6A-S/FTP-LSOH	Giganet Category 6A Solid S/FTP LSOH Cable- 305M



Technical Specifications

Electrical Characteristics (20°C)	Impedance(Ω)	1.0-250.0MHz	100±15
		250.0-500.0MHz	100±22
	1.0-500.0MHz Delay Skew (ns/100m)		≤45
	Unbalanced-to-ground capacitance (pf/100m)	max	330
	DC Resistance (Ω/100m)	max	9.38
	DC Conductor Resistance Unbalance (%)	max	5.0
Installation Temperature	Minimum		Maximum
	-20°C		+60 °C
Storage Temperature	Minimum		Maximum
	-20°C		+60°C
Operation Temperature	Minimum		Maximum
	-40°C		+75 °C
Standards	<ul style="list-style-type: none"> • ISO/IEC 11801-1:2017 (Ed. 1.0) / ISO/IEC 11801-2:2017 (Ed. 1.0) • EN 50173-1:2018 / EN 50173-2:2018 • TIA-568.2-D:2018 		
Packaging Length	(305±1.5)m		

Performance/Specification Table (100m)

Frequency (MHz)	RL ≥dB	ATT ≤dB	NEXT ≥dB	PHASE DELAY ≤ns	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB
1	20.0	—	74.3	570.0	72.3	68.0	65.0
4.0	23.0	3.8	65.3	552.0	63.3	56.0	53.0
8.0	24.5	5.3	60.8	546.7	58.8	49.9	46.9
10.0	25.0	5.9	59.3	545.4	57.3	48.0	45.0
16.0	25.0	7.5	56.2	543.0	54.2	43.9	40.9
20.0	25.0	8.4	54.8	542.1	52.8	42.0	39.0
25.0	24.3	9.4	53.3	541.2	51.3	40.0	37.0
31.25	23.6	10.5	51.9	540.4	49.9	38.1	35.1
62.5	21.5	15.0	47.4	538.6	45.4	32.1	29.1
100	20.1	19.1	44.3	537.6	42.3	28.0	25.0
200	18.0	27.6	39.8	536.5	37.8	22.0	19.0
250	17.3	31.1	38.3	536.3	36.3	20.0	17.0
300	16.8	34.3	37.1	536.1	35.1	18.5	15.5
500	15.2	45.3	33.8	535.6	31.8	14.0	11.0

System Warranty:

The Giganet System Warranty provides the end user an exclusive 25 year warranty when installed by a Giganet Certified Installer providing 100% coverage on non consumable products, application assurance and labour covering both link and channel using Giganet cable and connectivity. The warranty requested will depend on the class of cabling based on compliance to Industry standards using an approved performance tester.

