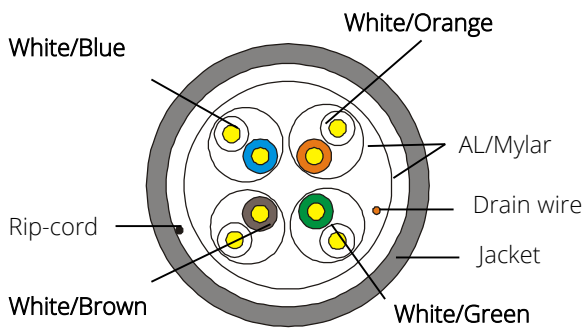


The Giganet Category 6A 500Mhz F/FTP LDPE cable has been designed and manufactured to exceed ISO/IEC 11801-1:2017 (Ed. 1.0) / ISO/IEC 11801-2:2017 (Ed. 1.0), IEC 61156-5:2012 (Ed. 2.1) EN 50173-1:2018 / EN 50173-2:2018, EN 50288-10-1:2012 TIA-568.2-D:2018 performance requirements. The cable is ideal for 10 Gigabit networks. The four pairs are individually wrapped with aluminum foil tape with an overall aluminum foil with drain wire to provide immunity from Alien Crosstalk (electromagnetic noise that can occur from one pair to an adjoining cable) and external EMI. 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	UP +0.005 Down -0.005
Insulation	Material	Skin-foam-skin PE	
	Diameter	1.330±0.05 mm	
Screening Material	Mylar+ AL/Mylar		
Sheath	Thickness	0.55±0.05 mm	
	External O.D.	7.5±0.5 mm	
	Surface	Clean	
	Material	LDPE(complies RoHS)	
	Color	Black	
Surface Printing	Letter height	3.0±0.3mm	
	Color	White	
	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-F/FTP-LDPE	Giganet Category 6A Solid F/FTP LDPE 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	
Installation Temperature	DC Conductor Resistance Unbalance (%)	max	5.0
	Minimum	Maximum	
Storage Temperature	-20°C	+60 °C	
	Minimum	Maximum	
Operation Temperature	-20°C	+60°C	
	Minimum	Maximum	
Standards	-40°C	+75 °C	
	ISO/IEC 11801-1:2017 (Ed. 1.0) / ISO/IEC 11801-2:2017 (Ed. 1.0) IEC 61156-5:2012 (Ed. 2.1), EN 50173-1:2018 / EN 50173-2:2018 EN 50288-10-1:2012, 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.

