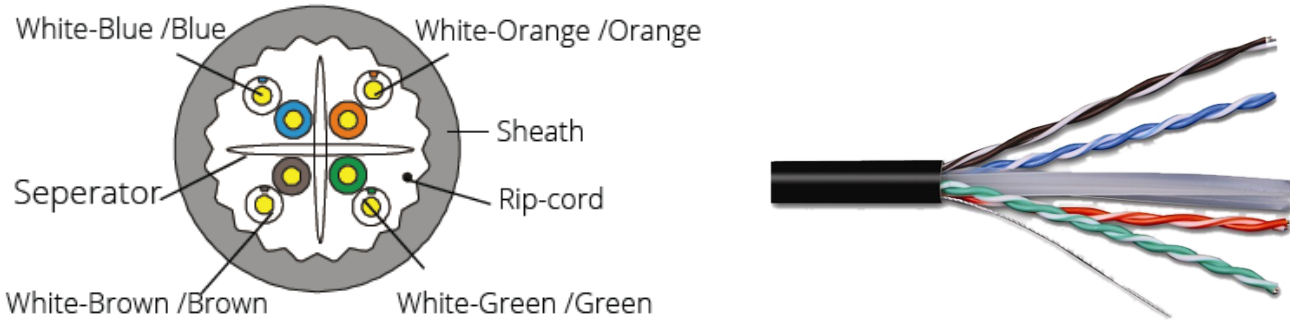


The Giganet Category 6A 500Mhz U/UTP LDPE cable has been designed and manufactured to exceed ANSI/TIA-568.2-D, ISO/IEC 11801-1 and EN 50173-1 performance requirements. The cable is ideal for 10 Gigabit networks. The four pairs are individually wrapped with aluminum foil tape with an overall aluminum 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	<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				
Screening Material	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-U/UTP-LDPE	Giganet Category 6A Solid U/UTP 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	
	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) • IEC 61156-5:2012 (Ed. 2.1) • EN 50173-1:2018 / EN 50173-2:2018 • EN 50288-6-1:2013 • TIA-568.2-D:2018 ISO/IEC11801, TIA-568-C.2 		
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.

