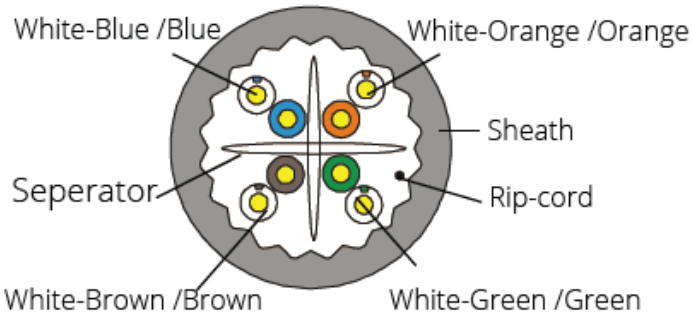
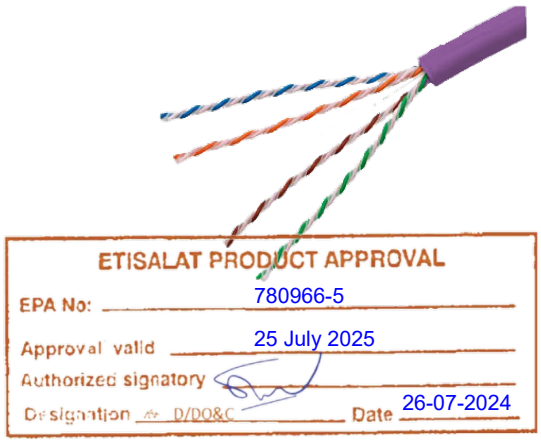
COPPER CATEGORY 6A CABLES
Giganet U/UTP Indoor LSOH Cable

The Giganet Category 6A 500Mhz U/UTP LSOH 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	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	LSOH(complies RoHS)		
	Color	Purple		
Serial Port	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			

GIGANET
25 Year
System Warranty

Ordering Information

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

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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	50 °C
Storage Temperature	Minimum	Maximum
	-20°C	+60°C
Operation Temperature	Minimum	Maximum
	-40°C	75 °C
Standards	• ISO/IEC 11801-1:2017 (Ed. 1.0) / ISO/IEC 11801-2:2017 (Ed. 1.0) • IEC 61156-5:2012 (Ed. 2.1) • IEC 60332-3-22/ IEC 60332-3-24 • EN 50173-1:2018 / EN 50173-2:2018 • EN 50288-6-1:2013 • 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.

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