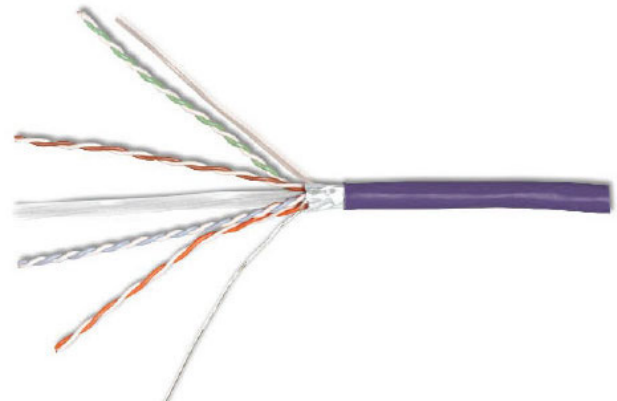
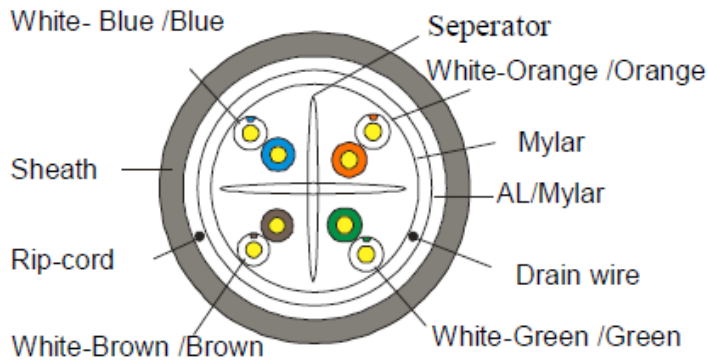


The Giganet Cabling Solutions products have been designed and manufactured to top international quality standards for end-to-end Category 6A cabling installations in both horizontal and backbone areas. The Giganet Category 6A F/UTP - foil screened cables are manufactured and tested to the ISO/IEC11801-TIA-568-C.2 Category 6A standards. Each cable consists of 8 colour coded 23AWG polyethylene insulated, solid bare copper, conductors. These are twisted together to form 4 pairs with varying lay lengths. These pairs are then formed around a central 'X' shaped polyethylene filler. This filler assists in maintaining and enhancing the cables performance. A clear Mylar tape is then wrapped around this unit and a foil tape screen with drain wire applied. The foil screen provides protection from Electromagnetic Interference (EMI) which can occur when data is transmitted at high frequencies.



Technical Specifications

Conductor	Material	Solid-Bare Copper	
	Nom.O.D.(mm)	0.570	UP +0.005 Down -0.005
Insulation	Material	HDPE	
	Diameter	1.12±0.05 mm	
Screening Material	Mylar+ AL/Mylar		
Sheath	Thickness	0.60±0.05mm	
	External O.D.	7.4±0.4 mm	
	Surface	Clean, Frap, Satiation	
	Material	LSOH (complies RoHS)	
	Color	Purple/Violet	
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) ≥10.0		
	Elongation(%) ≥350		
	Aging Period(°C×hrs) 100°C×24h×10d		
		After Aging Elongation(%) ≥300	



Ordering Information

Part Number	Description
GN-C6A-F/UTP-LSOH	Giganet Category 6A Solid F/UTP Indoor 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	
Operating Temperature	Minimum	Maximum	
	-10°C	50 °C	
Storage Temperature	Minimum	Maximum	
	-10°C	50°C	
Operation Temperature	Minimum	Maximum	
	-20°C	75°C	
Standards	ISO/IEC11801,TIA-568-C.2 IEC 60332-3-22 / IEC 60332-3-24		
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.

