



Technical Specifications

Conductor	Material	Solid-Bare Copper		
	Nom.O.D.(mm)	0.560	UP	+0.005
Insulation	Material	Skin-foam-skin PE		
	Diameter	1.330±0.05 mm		
Inner Screening Material	AL/Mylar			
Outer Screening Material	Tinned copper 0.10mm	Coverage	≥40%	
	Material	LSZH	Color	TBD
Inner Sheath	Thickness	0.80±0.2 mm		
Armored Material	Steel Wires	Coverage	≥65%	
	Thickness	1.1±0.4 mm		
Outer Sheath	External O.D.	11.5±1.0 mm		
	Surface	Clean		
	Material	LSOH(complies RoHS) UV Resistant		
	Color	TBD		
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			



Ordering Information

Part Number	Description
GN-C6A-SWA-S/FTP-LSOH	Giganet Category 6A Steel Wire Armoured, Solid S/FTP Double Jacket LSOH Cable



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Sheath Physical Properties	Before Aging Tensile Strength (Mpa) ≥ 10.0 Elongation(%) ≥ 125		
	Aging Period(°C×hrs) 100°C×24h×7d		
	After Aging Tensile Strength(Mpa) ≥ 8.0 Elongation(%) ≥ 100		
	Cold bend (-20±2°C×4h) 8×Cable O.D.°C No visible cracks		
Electrical Characteristics (20°C)	Impedance(Ω)	1.0-250.0MHz 250.0-500.0MHz	100±15 100±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

Performance/Specification Table (100m)

Frequency (MHz)	RL \geq dB	ATT \leq dB	NEXT \geq dB	PHASE DELAY \leq ns	PSNEXT \geq dB	ELFEXT \geq dB	PSELFEXT \geq dB
1	19.1	3.0	65.0		62.0	64.2	621.2
4.0	21.0	3.5	64.1		61.8	52.1	49.1
8.0	21.0	5.0	59.4		57.0	46.1	43.1
10.0	21.0	5.5	57.8		55.5	44.2	41.2
16.0	20.0	7.0	54.6	498	52.2	40.1	37.1
20.0	19.5	7.9	53.1		50.7	38.2	35.2
25.0	19.0	8.9	51.5		49.1	36.2	33.2
31.25	18.5	10.0	50.0		47.5	34.3	31.3
62.5	16.0	14.4	45.1		42.7	28.3	25.3
100	14.0	18.6	41.8		39.3	24.2	21.2
200	11.0	27.4	36.9		34.3	18.2	15.2
250	10.0	31.1	35.3		32.7	16.2	13.2
300	8.0	38.4	29.9		27.1	12.1	9.1
500	8.0	43.8	26.7		23.8	10.2	7.2

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.

