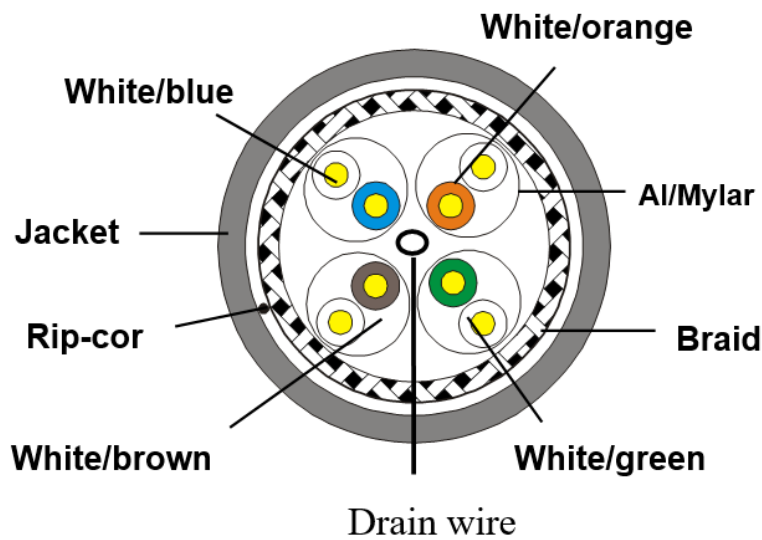


Overview

The Giganet Category 8 2000 Mhz S/FTP LSZH and PVC cable has been designed and manufactured to exceed ANSI/TIA-568.2-D Channel CAT8 ; ISO/IEC 11801 Channel Class I performance requirements. The cable is ideal for 25 and 40 Gigabit networks.

Each cable consists of 4 pairs individually wrapped in a covering of high quality, strong, aluminium/polyester foil tape providing an individual screen for each pair. These subunits are then cabled together, with the pairs set to different lay lengths to ensure optimum performance, an overall braid screen is applied to provide further immunity to outside noise and to mitigate any risk of alien cross talk.

The CAT8 system supports emerging and convergence applications, performance and ease of termination.



Product Features and Applications

FEATURES	
Low Smoke Zero Halogen Jacket	
23 AWG Conductors	
Individual foil pairs with overall braid screen	

Ordering Information

Part Number	Product Description
GN-C8-S-FTP-LSZH	Giganet Category 8 Solid S/FTP, 23 AWG, LSZH Cable – 305m drum

Product Specification

CABLE TECHNICAL SPECIFICATION			
Conductor	Material – Solid Bare Copper		
	Nom. O.D. (mm) 0.620 (23-AWG)	Up (+0.01) Down (-0.01)	
Insulation	Material	Skin-foam-skin PE	
	Diameter	1.580±0.05 mm	
Ripcord	Yes		
Drain Wire	No		
Shielded	Polyester		
Inner Screening Material	Al/Mylar	Drain Wire	No
Inner Screening Material	Tinned copper Coverage ≥60%		Tinned copper Coverage ≥60%
Sheath	Thickness	0.55±0.05 mm	
	External O.D.	8.4±0.5 mm	
	Surface	Clean	
	Material	LSZH (complies RoHS)	
Core Color	1 White/Blue	2 White/Orange	
	3 White/Green	4 White/Brown	
Packing	Drum		
Ripcord	Yes		
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., No visible cracks		
Electrical Characteristics (20°C)	Impedance(Ω): 100±5Ω@100MHz		
	Delay Skew (ns/100m) ≤25		
	Velocity of Propagation (%) 78		
	unbalanced-to-ground capacitance (pf/100m) max 120		
	DC Resistance (Ω/100m) max 6.98		
	DC Conductor Resistance Unbalanced (%) max 2.0		
Standards	Acceptance criterion: ANSI/TIA-568.2-D Channel cat8 ; ISO/IEC 11801 Channel Class I		

TECHNICAL PERFORMANCE TABLE

Frequency (MHz)	RL (≥dB)	ATT (≤dB)	NEXT (≥dB)	PSNEXT (≥dB)	ACR-F (≥dB)	PS ACR-F (≥dB)	ACR-N (≥dB)	PS ACR-N (≥dB)
1.0	19.0	3.0	65.0	62.0	65.0	62.0	62.0	59.0
4.0	19.0	3.0	63.8	60.5	59.9	56.9	60.8	57.5
8.0	19.0	3.0	58.9	55.6	53.9	50.9	55.9	52.6
10.0	19.0	3.0	57.3	54.0	52.0	49.0	54.3	51.0
16.0	18.0	3.0	53.9	50.6	47.9	44.9	50.9	47.6
20.0	17.5	3.0	52.3	49.0	45.9	42.9	49.3	46.0
25.0	17.0	3.2	50.7	47.3	44.0	41.0	47.5	44.1
31.25	16.5	3.6	49.1	45.7	42.1	39.1	45.5	42.1
62.5	16.0	5.1	44.0	40.6	36.0	33.0	38.9	35.5
100	16.0	6.5	40.5	37.1	32.0	29.0	34.0	30.6
200	14.3	9.3	35.3	31.9	25.9	22.9	26.0	22.6
250	13.4	10.4	33.6	30.2	24.0	21.0	23.2	19.7
300	12.7	11.5	32.3	28.8	22.4	19.4	20.8	17.3
400	11.6	13.3	30.1	26.6	19.9	16.9	16.8	13.2
500	10.7	15.0	27.9	24.8	18.0	15.0	12.9	9.9
600	10.0	16.5	25.7	22.7	16.4	13.4	9.2	6.2
1000	8.0	22.0	19.3	16.5	12.0	9.0	-2.6	-5.5
1500	8.0	27.7	13.9	11.2	8.4	5.4	-13.8	-16.4
2000	8.0	32.7	9.8	7.3	5.9	2.9	-22.9	-25.3