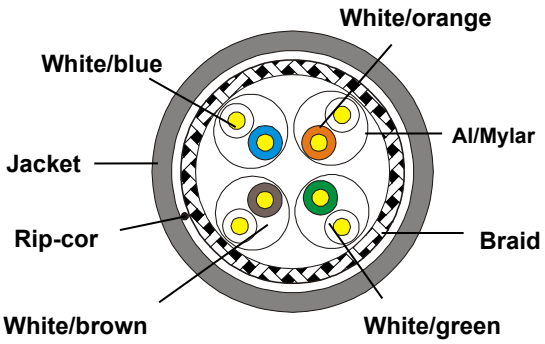
S/FTP 4Pairs cable-category 8.1-LSZH Sheath

P/N: G2801-032

Content of the Data Sheet					
Sheath Printing	TBD				
Customer No.		Customer Reference			
Category	S/FTP-CAT8.1-4P-LSZH-TC40				
Reference Standard	ISO/IEC 11801 & ANSI/TIA-568.2-D				
Conductor	Material	SOLID-Bare Copper			
	Nom.O.D.(mm)	0.620	up	+0.01	
			down	-0.01	
Insulation	Material	Skin-foam-skin PE			
	Diameter	1.580±0.05 mm			
Inner Screening Material	Al/Mylar	Drain wire	No		
Outer Screening Material	Tinned copper	Coverage	≥40%		
Sheath	Thickness	0.60±0.05 mm			
	External O.D.	8.4±0.5 mm			
	Surface	Clean			
	Material	LSZH(complies RoHS)			
	Color	TBD			
Surface Printing	Letter height	3.0±0.3mm			
	Color	Black			
	Print error & Space	≤±0.5%，1m			
Core Color	1 White/Blue	2 White/Orange			
	3 White/Green	4 White/Brown			
Packing	Drum				
Wooden Tray dimension	According to the requires				
Packing length	30±0.3m；50±0.3m；100±0.5m				
Rip-cord	Yes				
Sheath Physical Properties	Before Aging Tensile Strength (Mpa) ≥10.0 Elongation (%) ≥125				
	Aging Period (℃×hrs) 100℃×24h×7d				
	After Aging Tensile Strength (Mpa) ≥8.0 Elongation (%) ≥100				
	Cold bend (-20±2℃×4h) 8×Cable O.D.，No visible cracks				
Electrical Characteristics (20℃)	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 Unbalanc (%) max 2.0				



Technical Performance (30m):

Frequency (MHz)	RL ≥dB	ATT ≤dB	NEXT ≥dB	PSNEXT ≥dB
1.0	19.0	3.0	65.0	62.0
4.0	19.0	3.0	63.8	60.5
8.0	19.0	3.0	58.9	55.6
10.0	19.0	3.0	57.3	54.0
16.0	18.0	3.0	53.9	50.6
20.0	17.5	3.0	52.3	49.0
25.0	17.0	3.2	50.7	47.3
31.25	16.5	3.6	49.1	45.7
62.5	16.0	5.1	44.0	40.6
100	16.0	6.5	40.5	37.1
200	14.3	9.3	35.3	31.9
250	13.4	10.4	33.6	30.2
300	12.7	11.5	32.3	28.8
400	11.6	13.3	30.1	26.6
500	10.7	15.0	27.9	24.8
600	10.0	16.5	25.7	22.7
1000	8.0	22.0	19.3	16.5
1500	8.0	27.7	13.9	11.2
2000	8.0	32.7	9.8	7.3

Frequency (MHz)	ACR-F ≥dB	PS ACR-F ≥dB	ACR-N ≥dB	PS ACR-N ≥dB
1.0	65.0	62.0	62.0	59.0
4.0	59.9	56.9	60.8	57.5
8.0	53.9	50.9	55.9	52.6
10.0	52.0	49.0	54.3	51.0
16.0	47.9	44.9	50.9	47.6
20.0	45.9	42.9	49.3	46.0
25.0	44.0	41.0	47.5	44.1
31.25	42.1	39.1	45.5	42.1
62.5	36.0	33.0	38.9	35.5
100	32.0	29.0	34.0	30.6
200	25.9	22.9	26.0	22.6
250	24.0	21.0	23.2	19.7
300	22.4	19.4	20.8	17.3
400	19.9	16.9	16.8	13.2
500	18.0	15.0	12.9	9.9
600	16.4	13.4	9.2	6.2
1000	12.0	9.0	-2.6	-5.5
1500	8.4	5.4	-13.8	-16.4
2000	5.9	2.9	-22.9	-25.3

Acceptance criterion: ANSI/TIA-568.2-D Channel cat8 ; ISO/IEC 11801 Channel Class I

Version	A/01	Date	2022-11-07	Revised By	Caihanglie	Audited By	Nidonghua	Approved By	Nidonghua

Number	Revise Contents	Revise Reasons	Revised By	Audited By	Approved By	Date
A/01	Specification Version 1		Caihanglie	Nidonghua	Nidonghua	2022-11-07
