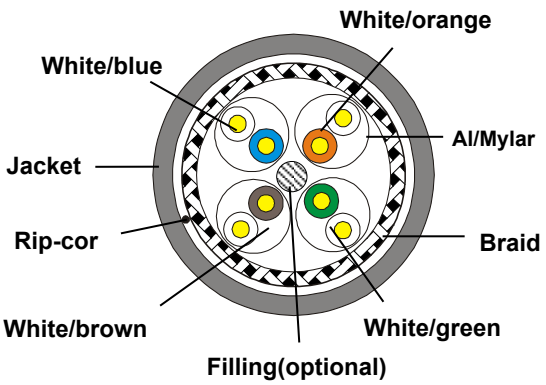
LinkPro™

S/FTP 4Pairs cable-category8.1-PVC Sheath

P/N: LG2801-026

Content of the Data Sheet						
Sheath Printing	TBD					
Customer No.		Customer Reference				
Category	S/FTP-CAT8.1-4P-PVC-TC30					
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	≥30%			
Sheath	Thickness	0.60±0.05 mm				
	External O.D.	8.4±0.5 mm				
	Surface	Clean				
	Material	PVC (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) ≥13.5 Elongation (%) ≥150					
	Aging Period (℃×hrs) 100℃×24h×7d					
	After Aging Tensile Strength (Mpa) ≥12.5 Elongation (%) ≥125					
	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 (%) 72					
	unbalanced-to-ground capacitance (pf/100m) max 120					
	DC Resistance (Ω/100m) max 6.98					
	DC Conductor Resistance Unbalance (%) 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/03	Date	2024-11-28	Revised By	Hanjunkang	Audited By	Caihanglie	Approved By	Nidonghua

Number	Revise Contents	Revise Reasons	Revised By	Audited By	Approved By	Date
A/01	Specification Version 1		Caihanglie	Nidonghua	Nidonghua	2021-05-18
A/02	Specification Version 2		Caihanglie	Nidonghua	Nidonghua	2022-02-25
A/03	Specification Version 3		Hanjunkang	Caihanglie	Nidonghua	2024-11-28