

LAN CABLE

PATCH S/FTP 4Pairs cable-category 6A-PVC Sheath

Product Description: Rated temperature: 60℃,75℃, 90℃ Reference Standard: UL444,UL1581,UL1666 Bare solid copper conductor Rohs/REACH complied PVC Jacket Flame Test: CMX,CM,CMR Installation temperature: -30℃~+50℃				Application: Volp , ISDN Token , 100M TP-PDM Analog and Data Video TR-16 Active And Passive 155M/662m/1.2GATM IEEE802.3: 100Base;100Base-T 1000Base-T 10GBase-T			
Content of the Data Sheet							
Category	PATCH S/FTP-CAT6A-4P-PVC						
Test Standard	ISO/IEC11801、TIA-568-C.2 、 YD/T1019						
Conductor	Material	stranded-Bare Copper					
	dimension.(mm)	26AWG(7/0.16)					
Insulation	Material	Skin-foam-skin PE					
	Diameter	1.00±0.05 mm					
Inner Screening Material	Aluminum Foil	Drain wire	No				
Outer Screening Material	Tinned copper 0.10mm	Coverage	≥40%				
Sheath	Thickness	0.55±0.05 mm					
	External O.D.	6.3±0.4 mm					
	Surface	Clean					
	Material	PVC					
	Color	According to the requires					
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	Wooden Tray & Carton						
Wooden Tray dimension	According to the requires						
Packing length	305±1.0m						
Rip-cord	Yes						

The diagram illustrates the internal structure of the cable. It features four twisted pairs of conductors, each with a distinct color: White/brown, White/blue, White/green, and White/orange. These pairs are surrounded by an Aluminum Foil and a Braid for shielding. A Rip-cord is also present for easy removal of the jacket. The entire assembly is enclosed in a Jacket.

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℃)	Delay Shew (ns/100m)	≤45
	Velocity of Propagation (%)	72
	capacitance (nf/100m) max	5.6
	unbalanced-to-ground capacitance (pf/100m) max	330
	DC Resistance (Ω/100m) max	14.5
	DC Conductor Resistance Unbalance (%) max	5.0

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Technical Performance (100m) nom:								
Frequency (MHz)	RL (dB)	ATT (dB)	NEXT (dB)	PHASE DELAY (ns)	Frequency (MHz)	PSNEXT (dB)	ELFEXT (dB)	PSELFEXT (dB)
1	20.0	2.1	74.3	570.0	1	72.3	68.0	65.0
4.0	23.0	3.8	65.3	552.0	4	63.3	56.0	53.0
8.0	24.5	5.3	60.8	546.7	8	58.8	49.9	46.9
10.0	25.0	5.9	59.3	545.4	10	57.3	48.0	45.0
16.0	25.0	7.5	56.2	543.0	16	54.2	43.9	40.9
20.0	25.0	8.4	54.8	542.1	20	52.8	42.0	39.0
25.0	24.3	9.4	53.3	541.2	25	51.3	40.0	37.0
31.25	23.6	10.5	51.9	540.4	31.25	49.9	38.1	35.1
62.5	21.5	15.0	47.4	538.6	62.5	45.4	32.1	29.1
100	20.1	19.1	44.3	537.6	100	42.3	28.0	25.0
200	18.0	27.6	39.8	536.5	200	37.8	22.0	19.0
250	17.3	31.1	38.3	536.3	250	36.3	20.0	17.0
300	16.8	34.3	37.1	536.1	300	35.1	18.5	15.5
500	15.2	45.3	33.8	535.6	500	31.8	14.0	11.0

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PATCH S/FTP 4Pairs cable-category 6A-LSZH Sheath

Product Description: Rated temperature: 90℃ Reference Standard:UL444,UL1581 Bare solid copper conductor Rohs/REACH complied LSZH Jacket Flame Test: IEC60332-1 ,IEC60332-3C CMX Installation temperature:-30℃~+50℃				Application: Volp , ISDN Token , 100M TP-PDM Analog and Data Video TR-16 Active And Passive 155M/662m/1.2GATM IEEE802.3: 100Base;100Base-T 1000Base-T 10GBase-T			
Content of the Data Sheet							
Category	PATCH S/FTP-CAT6A-4P-LSZH						
Test Standard	ISO/IEC11801、TIA-568-C.2 、 YD/T1019						
Conductor	Material	stranded-Bare Copper					
	dimension.(mm)	26AWG(7/0.16)					
Insulation	Material	Skin-foam-skin PE					
	Diameter	1.00±0.05 mm					
Inner Screening Material	Aluminum Foil	Drain wire	No				
Outer Screening Material	Tinned copper 0.10mm	Coverage	≥40%				
Sheath	Thickness	0.55±0.05 mm					
	External O.D.	6.3±0.4 mm					
	Surface	Clean					
	Material	LSZH					
	Color	According to the requires					
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	Wooden Tray & Carton						
Wooden Tray dimension	According to the requires						
Packing length	305±1.0m						
Rip-cord	Yes						

The diagram shows a cross-section of the cable with the following components labeled:

- White/brown**: Top-left twisted pair.
- White/blue**: Top-right twisted pair.
- White/green**: Bottom-left twisted pair.
- White/orange**: Bottom-right twisted pair.
- Jacket**: The outermost protective layer.
- Aluminum Foil**: A layer surrounding the twisted pairs.
- Braid**: A braided shield layer.
- Rip-cord**: A cord used for easy cable removal.

Sheath Physical Properties	Before Aging	Tensile Strength (Mpa)	≥10.0
		Elongation (%)	≥125
	Aging Period (℃×hrs)	100℃×24h×7d	
	After Aging	Tensile Strength (Mpa)	≥8
	Elongation (%)	≥100	
	Cold bend (-20±2℃×4h)	8×Cable O.D. , No visible cracks	
Electrical Characteristics (20℃)	Delay Shew (ns/100m)	≤45	
	Velocity of Propagation (%)	72	
	capacitance (nf/100m) max	5.6	
	unbalanced-to-ground capacitance (pf/100m) max	330	
	DC Resistance (Ω/100m) max	14.5	
	DC Conductor Resistance Unbalance (%) max	5.0	

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Technical Performance (100m) nom:								
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1	20.0	2.1	74.3	570.0	1	72.3	68.0	65.0
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8.0	24.5	5.3	60.8	546.7	8	58.8	49.9	46.9
10.0	25.0	5.9	59.3	545.4	10	57.3	48.0	45.0
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300	16.8	34.3	37.1	536.1	300	35.1	18.5	15.5
500	15.2	45.3	33.8	535.6	500	31.8	14.0	11.0