

Specification

FTP CAT5e CU + 2x0.75mm² CCA



Cable Description

I	Conductor:	
1	Number of Pairs	4
2	Total Number of Conductors	8
3	Conductor Material	BC-Solid Bare Copper
4	Wire Gage	24 AWG
5	Conductor diameter	Ø0.50±0.005mm
6	Elongation	≥15%

II	Insulate:	
1	Insulation Material	HDPE
2	Nom. Thickness	0.260mm
3	Insulation Diameter	Ø0.95±0.05mm
4	Elongation	≥300%
5	Color Cord	Pair 1 : White-Blue & Blue
		Pair 2 : White-Orange & Orange
		Pair 3 : White-Green & Green
		Pair 4 : White-Brown & Brown

III	Paired:	
1	Length of	< 30mm

IV	Cabling:	
1	Shield	AL Foil
2	Drain Wire	24 AWG
3	Drain Wire Conductor Material	Copper Cladded
4	Vertical Wrap	AL Foil
5	Outer Shield % Coverage	100%

V	DC Power Parts:	
1	DC Conductor	Copper Clad Aluminum 24*0.20mm stranded (20% copper)
2	DC Insulation	PVC
3	DC Insulated Diameter	1.8mm
4	Insulation Color	Red and Black
5	DC Overall Diameter	4.80mm

Electrical Characteristics(20°C)

Standard:		TIA/EIA-568-B.2 & IEC/ISO	
Product Standard Certification			
Test Item	Units	Spec	
1.Conductor D.C. Resistance	Ω/100m	≤8.9	
2.Unbalance of Pair D.C Resistance	%	≤2.5	
3.Dielectric Strength between Pairs	kV/min	≤1.0	
4.Dielectric Strength Conductor to Screen	kV/min	≤2.5	
5.Insulation Resistance	MΩ·km	≥5000	
6.Capacitance	nF/100m	≤5.6	
7.Unbalance of Capacitance	pF/100m	≤330	
8.Characteristic impedance(1 to 100MHz)	Ω	100±15	
9.Short or Open of the loop	-	None	
10.Operating Temperature Rating	°C	-40 ~ +50	

Frequency (Mhz)	RL(dB)	SRL (dB)	Attenuation (dB/100m)	NEXT (dB/100m)
1	20,00	28,00	2,03	65,30
4	23,01	28,00	4,03	56,27
8	24,52	28,00	5,73	51,75
10	25,00	28,00	6,43	50,30

Техническа спецификация за ЛАН-кабели FTP Cat5e CU+2x0.75mm² CCA

16	25,00	28,00	8,19	47,24
20	25,00	25,00	9,20	45,78
25	24,32	27,03	10,33	44,33
31,25	23,64	26,06	11,62	42,88
62,5	21,54	23,05	16,79	38,36
100	20,11	21,01	21,65	35,30

Frequency (Mhz)	PSNEXT (dB/100m)	ELFEXT (dB/100m)	PSELFEXT (dB/100m)	Delay (ns/100m)
1	62,30	64,00	61,00	45,00
4	53,27	51,96	48,96	45,00
8	48,75	45,94	42,94	45,00
10	47,30	44,00	41,00	45,00
16	44,24	39,92	36,92	45,00
20	42,78	37,98	34,98	45,00
25	41,33	36,04	33,04	45,00
31,25	39,88	34,10	31,10	45,00
62,5	35,36	28,08	25,08	45,00
100	32,30	24,00	21,00	45,00

Mechanical Characteristics

Test Object	Jacket	
Test Material	PVC	
Before	Tensile Strength(Mpa)	≥13.5
Aging	Elongation(%)	≥150
Aging Condition(°C×hrs)	100×168	
Before	Tensile Strength(Mpa)	≥12.5
Aging	Elongation(%)	≥125
Cold Bend(-20±°C×4hrs)	No crack	

Other Characteristics

Packing: 305m/Wooden drum