



Specification

FTP/M 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	PVC
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	Out Sheath(messenger):	
1	Material	PVC
2	Color	Black
3	Steel Wire	Ø 1.30±0.1mm
4	Sheath Dia.	Ø 2.80±0.2mm
5	Nom. Thickness	0.75±0.05mm
6	Min. Thickness	0.65mm

VI	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
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

