

局域网用对绞数据电缆

LAN with twisted pair cable



●产品使用说明(Product description)

该产品的生产依据为ISO/EIC11801、EIA/TIA-568-B和YD/T1019-2001，采用单根铜芯导体、聚乙烯绝缘、PVC、PE或低烟无卤护套，电缆主要用于综合布线网络ISDN、TM155MBPS、622MBPS、1000MBPS、千兆以太网网的水平布线或主干网布线。

The production is manufactured according to the standards of ISO/EIC11801, EIA/TIA-568-B and YD/T1019-2001, Using a single copper conductor, XLPE insulated, PVC, PE or LSZH jacket. Cable is mainly used for integrated wiring network ISDN, TM155MBPS, 622MBPS, 1000MBPS, Gigabit Ethernet horizontal wiring.

●产品结构尺寸(Product structure)mm

型号 Type	结构类型 Structure	导体线径 Conductor Diameter mm	绝缘线径 Insulation Diametermm	对 数 Pairs	成品线径 Diametermm
CAT-5	UTP (非屏蔽) Unshielded	0.51	0.92	4	5.0
	FTP (铝箔总屏蔽) Al-Foil	0.54	1.00	4	5.8
	S-UTP (铝箔+编织总屏蔽) Al-Foil+Braid	0.54	1.00	4	6.2
CAT-5e	UTP (非屏蔽无骨架) Unshielded no skeleton	0.51	0.92	4	5.6
	UTP (非屏蔽) Unshielded	0.51	0.92	4	6.3
	FTP (铝箔总屏蔽无骨架) Al-Foil no skeleton	0.54	1.00	4	5.8
	FTP (铝箔总屏蔽) Al-Foil	0.54	1.00	4	6.3
	S-UTP (铝箔+编织总屏蔽) Al-Foil+Braid	0.54	1.00	4	6.7
CAT-6	UTP (非屏蔽) Unshielded	0.57	1.00	4	6.7
	FTP (铝箔总屏蔽) Al-Foil	0.57	1.10	4	6.9
	S-UTP (铝箔+编织总屏蔽) Al-Foil+Braid	0.57	1.10	4	7.5

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●产品电气性能(Electrical properties)

名称 Name	频率 Frequency (MHz)	工作数据 Parameter		
		CAT-5	CAT-5E	CAT-6
导体直流电阻 Resistance (Ω/100m)		9.5	9.5	6.6
电缆特性阻抗 Impedance (Ω)		100±15	100±15	100±15
最大工作电容 Max. Capacitance (pF/100m)		5.6	5.6	5.0
传送速度 Rate		0.65	0.65	0.65
最大衰减 Max. Attenuation db/100m	1	2.0	2.0	1.9
	4	4.1	4.1	3.7
	10	6.5	6.5	5.9
	31.25	11.7	11.7	10.6
	62.5	17.0	17.0	15.4
最小近端串音衰减 Near-end crosstalk db/100m	100	22.0	22.0	19.8
	200	/	/	29.0
	250	/	/	32.8
	1	62	65	74
	4	53	56	65
最小远端串音衰减 Far-end crosstalk db/100m	10	47	50	59
	31.25	40	43	52
	62.5	35	38	47
	100	32	35	44
	200	/	/	40
最小回波损耗 Min. Return loss db/100m	250	/	/	38
	1	61	64	68
	4	49	52	56
	10	41	44	48
	31.25	31	34	38
	62.5	25	28	32
	100	21	24	28
	200	/	/	22
	250	/	/	20
	1	23	20	20
	4	23	23	23
	10	23	25	25
	31.25	21.1	24	24
	62.5	181	22	22
	100	16	20	20
	200	/	/	18
	250	/	/	17