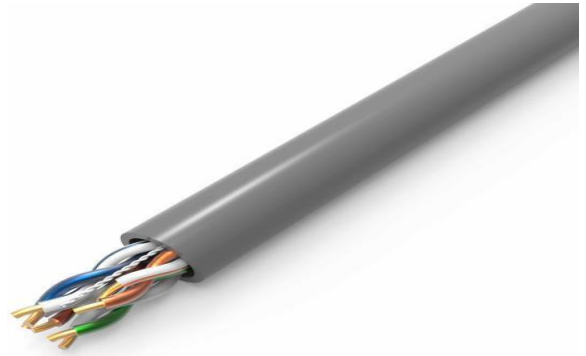


ETL, CPR Verified

Category 5e Compliant • TIA/EIA 568-C.2 • EN50173 • ISO/IEC 11801

RoHS



Features

- Category 5e Compliant • TIA/EIA 568-C.2 • EN50173 • ISO/IEC 11801
- ETL, CPR Verified
- Length 100M/305M/500M
- Customer: Chipdip
- Bare copper
- PE Outdoor
- Carton Packaging
- Unscreened Construction Specified to 100Mhz

Construction

Conductor (导体)	Size (尺寸)	24AWG
	Material (材质)	Solid Bare Copper
	Nom. O.D (导体线径)	0.51 ± 0.008mm
Insulation (绝缘)	Material (材质)	HDPE
	Nom. O.D (绝缘线径)	0.90±0.10 mm
	Minimum Thickness (平均厚度)	0.19 mm (REF)
	Color (颜色)	1P. Brown & White / Brown 2P. Blue & White / Blue 3P. Orange & White / Orange 4P. Green & White / Green
Filler (填充)	Material (材质)	Rip Cord
	Construction (结构)	3*250D
Jacket (护套)	Outer Sheath (外护套)	LDPE
	Average Thickness (平均厚度)	0.55±0.05 mm
	Overall Diameter (线径)	5.00±0.25mm
	Color (颜色)	Black
Sheath Printing (护套喷字)	Color (颜色)	White
	Marking (喷字)	LAN CABLE UTP CAT.5E 24AWG 4PAIRS EIA/TIA-568B ***M



Physical Characters/Electric Characters

Physical Characters (物理性能)	Sheath Normal Temp Tensile strength 老化前护套抗张强度(Mpa)	≥13.5
	Sheath Normal Temp. Elongation 老化前护套伸长率(%)	≥150
	Insulation Normal Temp. Tensile strength 老化前绝缘抗张强度(Mpa)	≥16
	Insulation Normal Temp. Elongation 老化前绝缘伸长率(%)	≥300
	Aging condition 老化条件(℃×hrs)	100℃±2℃, 24h, 7d
	Sheath after aging Tensile strength 老化后护套抗张强度(Mpa)	≥12.5
	Sheath after aging Elongation 老化后护套伸长率(%)	≥125
	Temperature rating 额定温度℃	-20℃— + 75℃
	Cold bend(-20±2℃×4小时) 冷弯	8×Cable O.D., No visible cracks

Electric Characters (电气性能)	Characteristic Impedance(Ω) 1.0-100.0MHz特性阻抗(Ω)	100±15
	Propagation Delay (ns/100m) 1.0-100.0MHz时延差	≤45
	Direct-current resistance 直流电阻20℃(Ω/100m) max	9.5
	Direct-current resistance unbalance 直流电阻不平衡(%)max	5
	insulation resistance 绝缘电阻 (MΩ.km)	≥5000
	Mutual capacitance of a pair 线对工作电容(nF/100m)	≤5.6
	Capacitance unbalance 电容不平衡(pF/100m)	≤160

Typical Applications

- 1000BASE-T Gigabit Ethernet
- 100BASE-TX Fast Ethernet
- 622 Mbps ATM
- 155 Mbps ATM
- Composite Video



Transfer Characteristics

MHZ	RL ≥dB	ATT ≤dB/100m	NEXT≥dB /100m	ACRF≥dB /100m	PS NEXT dB/100m	PS ACRF dB/100m	Delay (ns/100m)
1.00	19.0	2.1	60.0	58.6	57.0	55.6	521
4.00	19.0	3.9	54.8	46.6	51.8	43.6	504
8.00	19.0	5.5	50.0	40.6	47.0	37.5	500
10.00	19.0	6.2	48.5	38.6	45.5	35.6	498
16.00	19.0	7.9	45.2	34.5	42.2	31.5	496
20.00	19.0	8.9	43.7	32.6	40.7	29.6	495
25.00	18.0	10.0	42.1	30.7	39.1	27.7	495
31.25	17.1	11.2	40.5	28.7	37.5	25.7	494
62.50	14.1	16.2	35.7	22.7	32.7	19.7	492
100.00	12.0	21.0	32.3	18.6	29.3	15.6	491

DATE	2021-6-10	NON-STANDARD	A	SPEC NO	TX-024A0010-A
CHECK		APPROVER		DESIGNER	LLL

