

Lan/Ethernet cable

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CAT 5e

- compliant with:
- ANSI / TIA-568-C.2 5e standards
 - ISO / IEC11801 ClassD leve
- Application
- 100Base-TX · 100Base-T · 100VG-AnyLAN
 - 1000Base-T (Gigabit Ethernet)
 - 1000Base-TX · ATM
- Reference Standards
- IEC 60332-1
 - IEC 60332-3-24 · EN50399
- Testing Standards
- ISO/IEC11801 · ANSI/TIA-568-C.2



Physical Parameters

Conductor	Solid Bare Copper
Insulation Materials	High Density Polyethylene
Insulation Diameter	0.88mm Nom. (solid insulation) 1.00mm Nom. (SFS insulation)
Overall Shield	Aluminum Foil
Double Overall Shield	Aluminum Foil + Braiding
Jacket Diameter	5.0mm Nom. (U/UTP) 6.2mm Nom. (F / UTP) 6.6mm Nom. (SF / UTP) (5.0/10.8)mm Nom. (U/UTP duplex) (6.4/13.5)mm Nom. (F/UTP duplex) (5.4/2.6)mm Nom. (U/UTP aerial) (6.4/2.6)mm Nom (F/UTP aerial)
Jacket Material	PVC or LSZH or PE
Operating Temperature	- 30 °C ~ + 50 °C (LSZH/PE) - 20 °C ~ + 50 °C (PVC)

Electrical Parameters (20°C)

Transmission Delay Skew	≤45ns / 100m
Transmission Speed	69%
Capacitance	≤ 5.6nf / 100m
DC Conductor Resistance	9.5Ω / 100m
DC Conductor Resistance Unbalance	≤ 5%
Unbalance to Ground Capacitance	≤ 330pf / 100m

Frequency (MHz)	RL ≥dB	Attenuation ≤dB/100m	NEXT ≥dB/100m	Phase Delay ns/100m	PS NEXT ≥dB/100m	ELFEXT ≥dB/100m	PS ELFEXT ≥dB/100m
1	20.0	2.0	65.3	570.00	62.3	63.8	60.8
4.0	23.0	4.1	56.3	552.00	53.3	51.8	48.8
8.0	24.5	5.8	51.8	546.73	48.8	45.7	42.7
10.0	25.0	6.5	50.3	545.38	47.3	43.8	40.8
16.0	25.0	8.2	47.2	543.00	44.4	39.7	36.7
20.0	25.0	9.3	45.8	542.05	42.8	37.8	34.8
25.0	24.3	10.4	44.3	541.20	41.3	35.8	32.8
31.25	23.6	11.7	42.9	540.44	39.9	33.9	30.9
62.5	21.5	17.0	38.4	538.55	35.4	27.9	24.9
100	20.1	22.0	35.3	537.60	32.3	23.8	20.8
155	18.8	28.1	32.4	536.89	29.4	20.2	17.2
200	18.0	32.4	30.8	536.55	27.8	18.0	15.0
310	16.7	41.8	27.9	536.04	24.9	14.2	11.2
350	16.3	44.9	27.1	535.92	24.1	13.1	10.1

