



Data Communication & Computer Cable CAT 5 / CAT 5e / CAT 6 LAN Cables



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CAT 5 / CAT 5e / CAT 6 are well-known for their superior performance carved out of Technological excellence. These LAN cable are well-suited for VOICE, DATA, VIDEO and for all LAN topologies.

To provide better UTP performance at frequencies 100 Mhz and above necessitates tight control over cable manufacturing processes so as to achieve :

- Uniform twisted lays of insulated conductor pairs.
- Equal tension on conductors within a pair during the process.
- Uniform conductor - to - conductor spacing.
- No chance for the twisted pairs to distort or loosen during processing, installation or service.

Globomotive Inc. unique Jacket design dose not permit the pairs free movement inside the Jacket, thereby ensuring, excellent electrical performance. The cables meet to technical requirements of TIA / E1A 568-A for transmission performance.

COMPOSITION

Conductor	solid bare annealed copper wire
Nominal of conductor	0.5 mm
Insulation	PE
Colour Scheme for 4 pairs	Pair 1 White / Blue Pair 2 White / Orange Pair 3 White / Green Pair 4 White / Brown
Outer sheath	Fire Retardant PVC (IEC - 332)with high Oxygen & Temp. Indices
Overall dia	5.45 mm MAX
Standard Packing	(305 mts) in special type box

SPECIAL FEATURES

- 1, Low attenuation and cross-talk
- 2, Improvement in RETURN LOSS resulting in SIGNAL REFLECTION, especially at high frequencies.
- 3, Improvement in unbalance resistance.
- 4, Improvement in capacitance imbalance resulting in less differential noise across a given cable pair

SPECIAL FEATURES

- a, D.C. resistance at 20°C (Max) 9.38 ohms / 100 mts
- b, Capacitance unbalance-Pair to ground (Max) 330 pF / 10 mts
- c, Mutual capacitance (Max) 5.6 nf / 100 mts
- d, Characteristic impedance 100 ± 15 ohmse, Nominal velocity of propagation 66%
- f, Delay skew (Max) 45 ns
- g, Propagation delay at 20°C, 100 Mhz 538 ns / 100 mts

Specifications of Technical Data - Electrical

AWG Size	Attenuation dB	Next Worst Pair Db (Min)			Structural Return Loss (SRL)		
		CAT 5	CAT 5e	CAT 6	CAT 5	CAT 5e	CAT 6
1.00	1.00	62	62.3	74.3	23	20.0	20.0
4.00	4.00	53	56.3	65.3	23	23.0	23.0
8.00	8.00	48	51.8	60.8	23	24.5	24.5
10.00	10.00	47	50.3	59.3	23	25.0	25.0
16.00	16.00	44	47.3	54.3	23	25.0	25.0
20.00	20.00	42	45.8	54.8	23	25.0	25.0
25.00	25.00	41	45.3	53.3	22	24.3	24.3
31.25	31.25	39	42.9	51.9	21	23.6	23.3
62.00	62.00	35	38.4	47.4	18	21.5	20.7
100.00	100.00	32	35.3	44.3	16	20.1	19.0
150.00	150.00	-	32.5	41.7	-	18.8	17.6
200.00	200.00	-	30.8	39.8	-	18.0	16.4
300.00	300.00	-	27.3	-	-	-	-
350.00	350.00	-	27.2	-	-	-	-