

NETWORKING CABLE/ LAN / CAT 5E / CAT 6

Indoor Cat 5 Cable – 4 pairs to 100 pairs – The cable is intended to use for high speed data applications such as LAN, FAST ETHERNET, GIGA BIT ETHERNET, POTS, ISDN-BRA/E1/E1-ML/HDSL/ADSL/XDSL up to 100 Mhzs. The cable shall be used to inside building. Category 5 cable is an economical choice of cabling and is especially suitable for small and medium size installations if the extra performance of category 6 is not needed.

Cat 6 – 4 Pair Data Cable – Enhanced performance cable for transmission of high speed data, digital and analogue voice and video (RGB) signals and LANs. Supports Gigabit Ethernet. Operates up to 250 Mhz.

Cat 5 – 4 Pair Data Cable – Enhanced performance cable for transmission of high speed data, digital and analogue voice and video (RGB) signals and LANs. Supports Gigabit Ethernet. Operates up to 100 Mhz.

Electrical Performance for Cat 5e Cable

Input Impedance	100 Ohm \pm 15 Ohms \pm 22 Ohms
Capacitance	4.6 nF / 100 m Nominal
DC Resistance / Unbalance	9.38 oms/100 m Max / 2.5 % Max
No. Velocity of Propagation	71%
Dielectric Breakdown	2500 Volts DC Conductor to Conductor
Propagation Delay	4.59 nSec/m Max @ 10 Mz.
Propagation Delay Skew	15 nSec / 100 mMax

Mechanical Specification

Nominal Jacket	OD 0.195 inch
Nominal Jacket	Thickness 0.020 inch
Jacket Minimum Spot Thickness	0.016 inch
Installation Temperature	0°C to 60°C
Operation Temperature	-20°C to 60°C
PACKING: - 305 METER BOX OR 100 MTRS	

Sole Distributor

(Tamil Nadu & Maharashtra)

DIAMOND ELECTRICALS

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VJ'S CATV 75 OHMS SOLID COAXIAL CABLE

Suitable for High Frequency equipment and systems for transmission and reception purpose for missiles and satellite guidance, microwave transmission and local cable network system.

Construction Specification

Material	
1. Inner Conductor	Bare Copper
2. Dielectric	Physical Foam Polyethylene
3. Outer Conductor	Bonded Aluminum Foil + Aluminum Braid or Copper Braid
4. Jacket	PVC or PE

Technical Data

	RG 59	RG 59/U	RG 6	RG 6/U	RG 8	RG 10	RG 11/U
Conductor Dia (mm)	0.71	0.81	0.81	0.81	0.91	1.02	1.63
Dielectrical Dia (mm)	3.75	4.00	4.50	4.75	5.50	6.50	7.40
Shield	Al. Foil +Braid	Al. Foil +Braid	Al. Foil +Braid	Al. Foil +Braid	Al. Foil +Braid	Al. Foil +Braid	Al. Foil +Braid
Overall Dia (mm)	5.90	6.20	7.00	7.50	8.00	9.00	10.50
Impedance (Ohms)	75 ± 2	75 ± 2	75 ± 2	75 ± 2	75 ± 2	75 ± 2	75 ± 2

Attenuation 20°C / 91.44 Mtrs

	RG 59	RG 59/U	RG 6	RG 6/U	RG 8	RG 10	RG 11/U
50 Mhz	7.00	6.00	5.50	5.25	5.00	4.00	3.50
100 Mhz	8.00	7.00	7.50	7.00	6.00	5.00	5.00
175 Mhz	12.00	11.00	10.00	9.00	9.00	7.50	6.00
224 Mhz	13.00	12.00	11.00	10.00	10.00	8.50	7.00
300 Mhz	16.00	15.00	14.00	13.00	12.00	10.50	8.00
400 Mhz	18.00	17.00	16.00	15.00	14.00	12.50	10.00
500 Mhz	22.00	21.00	20.00	19.00	16.00	14.50	12.00

Tolerance ± 10 % Max.

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VJ'S CATV 75 OHMS GAS INJECTIVE CO-AXIAL CABLE

Construction Specification

Solid Center Conductor, nitrogen gas injection foamed polyethylene dielectric, inner shield aluminum polypropylene laminated tape with overlap bonded to dielectric, outer shield of 0.30 mm/ 0.36 mm braid, jacket of black polyvinylchloride or polythene.

Physical Dimensions

	RG 59	RG 59/U	RG 6	RG 6/U	RG 8	RG 10	RG 11/U
Conductor Dia (mm)	0.81	1.02	1.32	1.63	2.25	2.77	3.15
Dielectrical Dia (mm)	3.70	4.62	5.52	7.20	9.15	11.50	13.00
Shield	Al. Foil +Braid	Al. Foil +Braid	Al. Foil +Braid	Al. Foil +Braid	Al. Foil +Braid	Al. Foil +Braid	Al. Foil +Braid
Overall Dia (mm)	6.10	7.10	8.25	10.25	12.40	15.25	16.25
Cond. Resistance (Ohms/meter)	3.5	2.3	1.40	1.02	0.44	0.28	0.10

Attenuation 20°C / 100 Mtrs

Frequency	RG 59	RG 6	RG 10	RG 11	412	500	540
5	2.50	1.85	1.62	1.20	0.72	0.55	0.55
30	4.40	3.95	3.00	2.50	1.65	1.33	1.15
50	5.50	4.50	3.85	3.20	2.15	1.68	1.45
100	6.50	6.40	5.50	4.20	3.05	2.45	2.10
200	11.50	9.00	7.40	6.00	4.40	3.40	3.05
300	14.00	11.00	9.40	7.25	5.40	4.15	3.72
350	14.75	11.50	10.00	7.75	5.85	4.38	3.95
400	15.50	12.00	10.50	8.25	6.30	5.20	4.35
450	17.00	12.60	11.20	8.75	6.70	5.50	4.60
500	18.00	13.60	11.80	9.25	7.10	5.69	4.90
550	19.00	15.20	12.45	9.75	7.50	5.90	5.15
750	21.20	18.16	14.70	11.76	9.10	6.70	6.20
860	24.00	19.80	16.00	12.80	9.50	7.10	6.60
1000	26.50	21.55	17.20	13.80	10.70	8.10	7.20

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