

## CO-AXIAL CABLES

Co-axial cables are used for cable TV network, LAN and other data transmission applications. The inner conductor is made of electrolytic grade bare/tinned copper, insulated by low loss special grade polyethylene solid/foam dielectric. The inner shield is provided with polyethylene laminated aluminum Mylar tape overlap bonded over the di-electric. Special grade aluminum alloy / tinned copper braiding is provided over the bonded aluminum Mylar tape to ensure low loss in signal/quality. Additional mechanical strength and resistance to oxide formation in tropical weather conditions is provided through the specially formulated PVC compound used in outer jacketing. Co-axial cables with steel wire armouring can be supplied for underground application for further mechanical protection if specifically called for.

Varsha cables have been supplying fully tested co-axial cables since the last decade.

CONSTRUCTION	CABLE TYPE		
	RG-59F	RG-6	RG-11
Centre conductor	Solid Bare/Tinned Copper Conductor		
Centre Conductor Dia. (mm)	0.8	1.02	1.63
Di, electric	Gas expanded polyethylene insulation		
Insulation Dia. (mm)	3.55	4.57	7.11
Outer Conductor 1 <sup>st</sup> shield	ALUMINUM Foil Tape With Overlap		
2 <sup>nd</sup> shield	ALUMINUM Alloy Braiding		
Min coverage %	60	60	60
Jacket	Of black / grey PVC		
Nom Dia. (mm)	6.2	7.25	10.3
Center Cond. Max resistance ohm/100 mtrs at 20°C	3.55	2.14	0.85
Nominal Capacitance pf/m	53±3	53±3	53±3
Normal Impedance	75 ohms	75 ohms	75 ohms
Nom. Velocity ratio %	85	82	82
Frequency (MHz)	Attenuation at 20°C db/100 m		
5	2.82	1.95	1.25
55	6.73	5.20	3.15
211	12.47	9.50	6.23
250	13.45	10.50	6.72
300	14.60	11.50	7.38
350	15.75	12.45	7.94
400	16.73	13.30	8.53
450	17.72	14.35	9.02
550	19.52	15.70	9.97
600	20.34	16.45	10.43
750	22.87	18.35	11.97
865	24.67	19.95	13.05
865	26.64	21.45	14.27