

11 Coaxial Cables

11.2 RG series

Application :

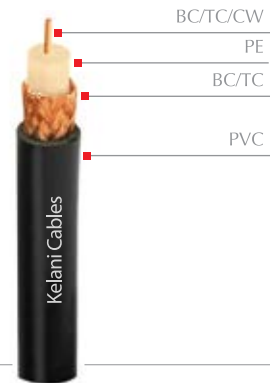
A = Ideally suited for use in VHF/UHF TV, CCTV and CATV systems.

B = Designed for use in baseband & broadband video system, digital data link and digital highways.

C = Designed for use in radio transmission / reception systems and computer systems

Engineering Specifications

Type	: Cu/PE/SCR/PVC
Standard	: MIL
Screen	: Bare copper / tinned copper
Insulation	: PE
Sheathing	: 70 °C rated PVC compound
Packing	: Supplied in coils of 100 meters or as per customer requirements
Conductor	: Soft annealed solid or Stranded copper wires



Physical Parameters

	Unit	RG 6	RG 11A/U	RG 58B/U	RG 59B/U	RG 213/U
1. Conductor Material		BC	TC	TC	CW	BC
2. Cond. O.D.	mm	1.02	1.212	0.9	0.57	2.26
3. Cond. Construction		1/1.02	7/0.404	19/0.180	1/0.57	7/0.752
4. Insulation Material		FPE	PE	PE	PE	PE
5. Core O.D.	mm	4.72	7.24	2.95	3.71	7.24
6. Shielding Material		BC	BC	TC	BC	BC
7. Shield Design		24/5/0.14	24/5/0.14	24/5/0.14	24/5/0.14	24/5/0.14
8. Sheathing Material		PVC*	PVC*	PVC*	PVC*	PVC*
9. Nominal O.D.	mm	6.8	10.3	4.9	6.2	10.3
10. Approx. mass	kg/km	43	146	39	55	159

Electrical Characteristics

12. Char. Impedance	Ω	75	75	50	75	50
13. Vel. Propagation	%	85	66	66	66	66
14. Nom. Capacitance	pF/m	52	68	100	70	103
15. Attenuation	Freq. (MHz)	Loss. (dB/100m)				
	50	5.0	4.3	10.8	8.5	5.2
	100	6.7	6.6	16.1	11.5	7.2
	200	9.5	9.5	24.0	16.1	10.5
	400	13.6	13.8	37.7	23.3	15.5
	1000	24.4	23.3	70.5	39.4	29.2
		A	B	C	B	C

Remarks BC = Bare Copper Wire
PE = Solid Polyethylene
FPE = Foam Polyethylene

TC = Tinned Copper Wire
CW = Copper Welded Steel Wire
PVC* = PVC with UV protected