

# Swadeshi<sup>®</sup> CABLES

An ISO 9001 Company



PRODUCT CATALOGUE

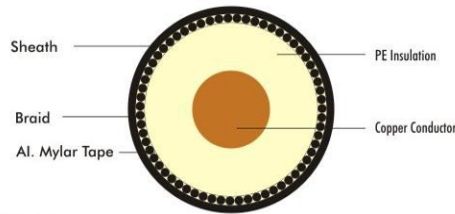


### Application

Used in cable TV operations, Computer net-working etc.

### Construction

Solid annealed bare copper conductor polythelene insulated shielded with polyester backed aluminium tape and additional shielding with fine aluminium braid, jelly flooded, protected with polyester tape wrapping and sheathed with PVC.



### ELECTRICAL PARAMETERS

S. No.	Type	RG-6 Foam	RG-11 Foam
1.	Inner Conductor- Max. Resistance (phm/km) @ 20 °C	2.13	0.84
2.	Inner Conductor- Loop Resistance (phm/km) @ 20 °C	2.78	1.66
3.	Nom. Capacitance (pF/mtr.)	53	53
4.	Nom. Impedance (phm)	75	75
5.	Nom Velocity Ratio (%)	85	85
6.	Nom. Attenuation @ 25 degree (dB/100m)		
	@55 Mhz	1.95	2.82
	@83 Mhz	6.20	3.87
	@187 Mhz	9.15	5.74
	@211 Mhz	9.50	6.23
	@250 Mhz	10.50	6.72
	@300 Mhz	11.50	7.38
	@350 Mhz	12.45	7.94
	@400 Mhz	13.30	8.53
	@450 Mhz	14.35	9.02
	@500 Mhz	14.95	9.51
	@550 Mhz	15.70	9.92
7.	Structural Return Loss (db/100m)		
	From 30 to 300 Mhz	>28	>26
	From 300 to 550 Mhz	>22	>24
	Bending Radius, min (mm)	65	75

### TECHNICAL DATA

S.No.	Type	
1.	Size	RG-6, RG-11
2.	Inner Conductor	Solid Copper
3.	Insulation	Gas Injected Physical Foamed Polythylene
4.	Flooding Compound	Jelly
5.	Outer Conductor	Bonded Polyaluminium Tape. Braided with Aluminium Alloy Wire
6.	Outer Jacket	UV Resistant Black PVC Jacket
7.	Making	Progressive Sequential Length Marking on every meter

### CONSTRUCTION PARAMETERS

S. No.	Type	RG-6 Foam	RG-11 Foam
1.	Inner Conductor	Solid Bare Copper	Solid Bare Copper
2.	Nom. Diameter (mm)	1.02	1.63
3.	Dielectric	Foam PE	Foam PE
4.	Nom. Diameter (mm)	4.57	7.11
5.	Outer Conductor - First	Bonded Al Tape	Bonded Al Tape
6.	Outer Conductor - Second	Al Braid	Al Braid
7.	Nom. Coverage (%)	60	60
8.	Jacket	PVC (Black)	PVC (Black)
9.	Nom. Diameter (mm)	7.00	10.00



## TELEPHONE CABLES

### Application

Cables used for Indoor Telephone, Telephone Exchanges, Satellite Telecommunication Systems, Industrial Plant Communication Systems, EPBAX Systems, Closed Circuit Security Systems, In-House Telephone wiring and various other equipments involving telephones.

### Standard

Cables are generally made as per TEC Specification No. G/WIR-06/02 or as per customer specification.

### Construction

Solid annealed tinned/bare copper conductor, PVC insulated cores suitably colour coded for distinct identification, twisted to form pairs, pairs laid up, PVC sheathed, Armoured Cables are provided with Galvanised steel wire/strip armouring and then sheathed again with PVC.

### Design/Material Options

Conductor	Tinned Copper/Bare Copper
Insulation	PVC/HRPVC/Polythelene
Shielding	Overall shielded/individual pair shielded and over all shielded with polyster backed aluminium tape or fine copper wire braid
Sheathing	PVC/HRPVC/FRPVC/FRLSPVC/Polythelene
Conductor Size	0.4/0.5/0.6/0.7/0.8/0.9 mm
Cable Configuration	1 p, 2 p, 3 p, 4 p, 5 p, 10 p, 50 p, 100 p upto 200 p

### Salient features

- Hard grade PVC insulation is used for long life and stable properties of cables.
- Staggered lays of twisted pairs are used to ensure minimum cross talk.
- Sizing and processing, conductor and insulated cores is done in precisely controlled manner on automatic modern machines to have optimum values of capacitance, capacitance unbalanced, image and cross talk attenuation and characteristic impedance.
- Shielding is done to protect from outside/inter pair interference as per specific needs.

