

SUBMERSIBLE CABLES

IS: 694 1990

RR Kabel Shramik brand of flat cables are manufactured with rigid manufacturing controls to sustain complete immersion in water, protection against rain water. The conductors are uniformly drawn from high purity electrolytic grade copper on high precision drawing machines with superb flexibility. Compactly bunched to offer uniform resistance across all conductors extruded on dual screw extrusion machines with inline monitoring of cable diameter and high voltage spark testing. Finally, sheathed with abrasion resistant PVC compound impervious to oil, grease and water.

Conductor: Annealed plain copper to IS 8130, uniformly bunched to form a circular shape

Sheath: Type ST1, IS5831, with excellent water resistant properties.

Insulation: Type A, IS 5831, with very high insulation resistance under damp conditions

Submersible flat cable:

The submersible flat cables are mainly used in pump connection. Though they are mainly used to supply power to pumps, they are also used in industrial applications. These cables are specially manufactured keeping in mind the severe, tough and difficult conditions in which they are used.

RR KABEL SHRAMIK - 3 Core Flat Cables (as per IS 694 : 1990 - ISI marked)

Conductor		Insulation	Sheath		Conductor Resistance @ 20°C (Max.) Ω/km	Current Carrying Capacity @40°C Amps
Area (Nom.) Sq.mm	No/dia. of strands mm	Thickness (Nom.)mm	Overall dimensions			
			Thickness (nom.)mm	Size (Approx.) (W x T) mm		
1.5	22/0.3	0.7	1	11.40 X 5.20	12.1	16
2.5	36/0.3	0.7	1.1	13.80 X 6.20	7.41	22
4.0	56/0.3	0.8	1.2	16.20 X 7.10	4.95	29
6.0	84/0.3	0.8	1.2	18.00 X 8.00	3.30	37
10.0	140/0.3	1.0	1.3	22.50 X 9.50	1.91	51
16.0	126/0.4	1.0	1.4	25.30 X 11.00	1.21	68
25.0	196/0.4	1.2	1.5	29.4 X 11.80	0.78	86
35.0	276/0.4	1.2	1.6	33.30 X 13.30	0.554	110
50	396/0.5	1.4	1.7	40.1 X 15.7	0.386	125

Note : Insulation thickness, sheath thickness and overall dimensions given in this table are nominal values. The conductor is designed to satisfy the requirement of conductor resistance as per IS 8130 : 1984

RR KABEL SHRAMIK - 3 Core Flat Cables (generally conforming to IS : 694 1990)

Conductor		Insulation	Sheath		Conductor Resistance @ 20°C [Max.] Ω/km	Current Carrying Capacity @40°C Amps
Area (Nom.) Sq.mm	No/dia. of strands mm	Thickness (Nom.)mm	Overall dimensions			
			Thickness (nom.)mm	Size (Approx.) (W x T) mm		
1.5	22/0.3	0.7	1.3	11.80 X 5.80	12.1	16
2.5	36/0.3	0.7	1.5	14.10 X 6.75	7.41	22
4.0	56/0.3	0.8	1.6	16.40 X 7.50	4.95	29
6.0	84/0.3	0.8	1.7	18.10 X 8.30	3.30	37
10.0	140/0.3	1.0	1.7	22.50 X 9.50	1.91	51
16.0	126/0.4	1.0	1.8	25.30 X 11.30	1.21	68

Note : The overall dimensions exceed the maximum requirements stated in IS 694 1990