

RUBICON™

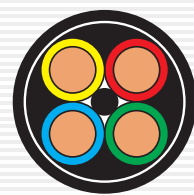
RUBICON 4 Core Flat Cables for Submersible Pumps (1100 Volts)

Conductor		PVC Insulation		PVC Sheath		Conductor Resistance at 20° C (max)	Current Rating at 40° C	
Nominal Area in Sq. mm	Nos. & Dia. of wire Nos. / mm	Nominal Thickness mm	Nominal Core Dia. mm	Nominal Thickness mm	Approx. Overall Dimensions			
					Height mm	Width mm		
1.50	22/0.30	0.80	3.20	1.30	6.00	15.80	12.10	14
2.50	36/0.30	0.90	3.80	1.30	6.50	18.00	7.41	18
4.00	56/0.30	1.00	4.50	1.45	7.60	21.00	4.95	26
6.00	85/0.30	1.00	5.30	1.50	7.90	24.30	3.30	31
10.00	140/0.30	1.00	6.50	1.80	9.90	29.70	1.91	42
16.00	226/0.30	1.00	8.10	2.00	11.80	36.00	1.21	57
25.00	354/0.30	1.20	10.10	2.00	14.70	45.10	0.780	72
35.00	495/0.30	1.20	11.50	2.00	16.20	50.10	0.554	90
50.00	703/0.30	1.40	13.60	2.20	18.30	58.10	0.386	115
70.00	440/0.30	1.40	15.30	2.20	20.00	66.50	0.272	143
95.00	475/0.30	1.60	18.00	2.40	23.50	77.30	0.206	165

Note : The number of wires is approximate and wire diameter is nominal, they shall be such as to satisfy the requirements of conductor resistance as per Class 5 of IEC 60228, DIN VDE 0295, IS 8130, BS 6360.
 Insulation - Rohs Eco PVC compound is used for friendly environment which is approved by European Country.
 Generally conforming to : IS 694, CENELEC HD21, BS 6500, IEC 60227, DIN VDE 0281.

PVC Insulated Double Sheathed Round Submersible Cables

Conductor		Radial Thickness of Insulation Nom (mm)	Thickness of Inner Sheath Nom.		Thickness of Outer Sheath Nom.		Overall Diameter Approx.	
Area Sq. mm	No. of strands/ Nom dia.(mm.)		3 Core (mm.)	4 Core (mm.)	3 Core (mm.)	4 Core (mm.)	3 Core (mm.)	4 Core (mm.)
1.5	30/0.25	0.6	1.0	1.0	1.2	1.2	10.8	12.0
2.5	50/0.25	0.7	1.0	1.0	1.2	1.2	13.2	13.8
4.0	56/0.30	0.8	1.0	1.0	1.2	1.4	14.2	15.5
6.0	84/0.30	0.8	1.0	1.0	1.4	1.4	16.5	18.5
10.0	140/0.30	1.0	1.0	1.0	1.4	1.4	19.1	22.0
16.0	226/0.30	1.0	1.0	1.0	1.4	1.4	23.5	25.0
25.0	354/0.30	1.2	1.0	1.0	1.6	1.6	28.5	31.0
35.0	495/0.30	1.2	1.0	1.0	2.0	2.0	30.5	32.8



Double sheathed round 3 core and 4 core cables are ideally suited for heavy-duty applications like sewage, slurry and de-watering pumps in which the sheathing must be able to withstand abrasion, preventing water along the interstices of the cable, and be resistant to acidic fluids & reactive base chemicals.

Rating factors for low voltage :

Multiply the full load current of submersible motors by factors given below for different supply voltages & select the right cable.

Voltage	415	400	350	300	275	250
Rating Factor	1.00	1.05	1.15	1.25	1.30	1.35

Derating Factors :

Multiply the full load current of submersible motors by factors given below for various ambient temperatures.

Ambient Temperature C.	30	35	40	45	50
Rating Factor	1.09	1.04	1.00	0.95	0.77

Expect a different experience with **RUBICON** cables

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NO PROBLEM CABLES

RUBICON CABLES INDUSTRIES

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Before buying any RUBICON Cables Please Refer Table as below.

Cables selection chart at 40° C 415 V (with DOL Starter)

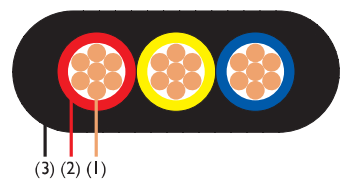
3 Core Flat Cables as per IS 694: with ISI Mark								
Conductor		Insulation		Overall Dimentions			Conductor Resistance @20C(max) ohms/km	Current carrying capacity @40C Amps
Area Sq. mm	No. of strands/ Dia. mm	Thickness (Nom) mm	Nominal Core Dia	Thickness (Nom) mm	Width (Max Approx) 'W' mm	Height (Max Approx) 'H' mm		
1.5	30/0.25*	0.6	2.90	0.9	11.0	5.40	12.10	14
2.5	50/0.25*	0.7	3.60	1.0	13.0	6.20	7.41	18
4.0	56/0.3**	0.8	4.30	1.0	15.30	7.10	4.95	26

Note : The strand diameter is nominal. However, construction of conductor is designed to satisfy the requirement of conductor resistance as per IS 8130 : 1984.
 *As per Conductor Class 2 of IS 8130 : 1984.
 ** As per Conductor Class 5 of IS 8130 : 1984.

3 Core Flat Cables Generally Conforming to IS 694:1990								
Conductor		Insulation		Overall Dimentions			Conductor Resistance @20C(max) ohms/km	Current carrying capacity @40C Amps
Area Sq. mm	No. of strands/ Dia. mm	Thickness (Nom) mm	Nominal Core Dia	Thickness (Nom) mm	Width (Max Approx) 'W' mm	Height (Max Approx) 'H' mm		
6.0	84/0.3	0.8	5.00	1.10	19/2	8/40	3.30	31
10.0	140/0.3	1.0	6.50	1.40	24/2	10/40	1.91	42
16.0	226/0.3	1.0	8.10	1.40	29/0	12/40	1.21	57
25.0	354/0.3	1.2	10.10	2.00	36/5	15/70	0.780	72
35.0	495/0.3	1.2	11.50	2.00	40/5	17/20	0.554	90
50.0	703/0.3	1.4	13.60	2.20	46/5	19/30	0.386	115
70.0	360/0.5	1.4	15.30	2.20	52/00	21/00	0.272	143
95.0	475/0.5	1.6	18.00	2.40	61/00	24/50	0.206	165

Submersible Motors		Size Of Cable in SQ MM. at different Length in Mtrs.											
H.P.	Full Load Current Amps.	30	40	50	60	70	80	90	100	110	130	140	180
5	7.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	4	4
7.5	11	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	4	4	4	6
10	15	2.5	2.5	2.5	2.5	2.5	2.5	4	4	4	4	6	6
12.5	19	2.5	2.5	2.5	2.5	4	4	4	4	6	6	10	10
15	22.5	4	4	4	4	4	4	4	6	6	10	10	10
17.5	26	4	4	4	4	4	6	6	6	10	10	10	10
20	28.4	6	6	6	6	6	6	6	6	10	10	10	16
25	35.6	10	10	10	10	10	10	10	10	10	10	16	16
30	42.3	10	10	10	10	10	10	10	10	10	16	16	16
35	50.4	16	16	16	16	16	16	16	16	16	16	25	25
40	58.1	16	16	16	16	16	16	16	16	16	16	25	25
45	62.1	25	25	25	25	25	25	25	25	25	25	25	25
50	67.5	25	25	25	25	25	25	25	25	25	25	25	35
55	73.8	35	35	35	35	35	35	35	35	35	35	35	35
60	81.0	35	35	35	35	35	35	35	35	35	35	35	35
65	87.3	35	35	35	35	35	35	35	35	35	35	35	35
70	93.6	50	50	50	50	50	50	50	50	50	50	50	50
75	100.8	50	50	50	50	50	50	50	50	50	50	50	50
80	108.0	50	50	50	50	50	50	50	50	50	50	50	50
5	7.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5
7.5	11	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	4	4	4
10	15	1.5	1.5	1.5	2.5	2.5	2.5	2.5	4	4	4	6	6
12.5	19	2.5	2.5	2.5	2.5	2.5	2.5	4	6	6	6	6	6
15	22.5	2.5	2.5	2.5	2.5	2.5	4	4	4	4	6	6	10
17.5	26	2.5	2.5	2.5	2.5	2.5	4	4	4	4	6	6	10
20	28.4	2.5	2.5	2.5	4	4	4	4	6	6	10	10	10
25	35.6	4	4	4	4	4	4	6	6	10	10	10	16
30	42.3	4	4	4	4	6	6	6	10	10	10	10	16
35	50.4	6	6	6	6	6	6	6	10	10	10	16	16
40	58.1	10	10	10	10	10	10	10	10	10	16	16	16
45	62.1	10	10	10	10	10	10	10	10	10	16	16	16
50	67.5	10	10	10	10	10	10	10	10	16	16	16	25
55	73.8	10	10	10	10	10	10	10	10	16	16	16	25
60	81.0	16	16	16	16	16	16	16	16	16	25	25	25
65	87.3	16	16	16	16	16	16	16	16	16	25	25	25
70	93.6	16	16	16	16	16	16	16	16	16	25	25	35
75	100.8	16	16	16	16	16	16	16	16	16	25	25	35
80	108.0	25	25	25	25	25	25	25	25	25	25	25	35

TECHNICAL DATA



- (1) Copper Conductor
- (2) PVC insulation of cores (Red, Yellow, Blue)
- (3) PVC sheath (Black)



In view of continuous improvements in our design & process, specifications given herein are subject to change without notice. All information given herein is in good faith. RUBICON shall not be liable for any damages arising out of incorrect use or interpretation.