

SUMBERSIBLE PUMP CABLES

POLARIS - 3 CORE FLAT / ROUND SUBMERSIBLE PUMP CABLES 1100 V GENERALLY CONFORMING TO IS : 694

Nominal Cross Sectional Area	Approx. No. of Cond/Dia of wires	Thickness of PVC Insulation (Nom.)	Thick of PVC Outer sheath (Nom.)	Approx. Overall Diameter (W x T)	Approx. Net Wt. of Cable	Max. D.C. resistance at 20°C	Current Carrying Capacity at 40°C
mm ²	mm	mm	mm	mm	(kg/Km)	Ohm/Km	Amps
1.50	22/0.30	0.60	0.90	11.00 x 5.00	103	12.10	16
2.50	36/0.30	0.70	1.00	13.00 x 6.00	152	7.41	22
4.00	56/0.30	0.80	1.00	15.30 x 6.70	211	4.95	29
6.00	84/0.30	1.00	1.15	18.70 x 7.90	306	3.30	37
10.00	140/0.30	1.00	1.40	23.70 x 9.90	502	1.91	57
16.00	226/0.30	1.00	1.40	28.00 x 11.40	697	1.21	68
25.00	354/0.30	1.20	2.00	35.50 x 14.70	1124	0.780	86
35.00	495/0.30	1.20	2.00	39.50 x 16.20	1450	0.554	110

Notes

1) Colour Code :

Three core : Red, Yellow & Blue

2) As per international practice, as also adopted by BIS, the size of conductor is decided by its resistance only. The construction of conductor is maintained within requirements of IS:8130-1984 as presented by IS:694

SELECTION GUIDE

HP Vs Current : The full load current for submersible pump motors, 3 phase , 50 cycles, 415-425 V

HP	5.0	7.5	10.0	12.5	15.5	17.5	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0
AMP	7.5	11.0	14.9	18.9	22.5	25.2	28.4	35.6	42.3	50.4	58.1	62.1	67.5	73.8	81.0	87.3	93.6	100.8	108.0

POLARIS - 3 CORE DOUBLE SHEATHED ROUND SUBMERSIBLE CABLES : 1100 V GENERALLY CONFORMING TO BS-6004

Nominal Cross Sectional Area	Approx. No. of Cond/Dia of wires	Thickness of PVC Insulation	Thick of PVC Outer sheath	Approx. Overall Diameter	Approx. Net Wt. of Cable	Max. D.C. resistance at 20°C	Current Carrying Capacity
mm ²	mm	mm	mm	mm	(kg/Km)	Ohm/Km	Amps
2.50	36/0.30	0.80	1.20	10.85	189	7.98	22
4.00	56/0.30	0.80	1.20	11.80	240	4.95	29
6.00	84/0.30	0.80	1.40	13.45	327	3.30	37
10.00	80/0.40	1.00	1.40	16.70	527	1.91	57
16.00	126/0.40	1.00	1.40	19.25	750	1.21	68

Notes

1) Colour Code :

Three core : Brown, Blue & Yellow-Green

2) As per international practice, as also adopted by BIS, the size of conductor is decided by its resistance only. The construction of conductor is maintained within requirements of IS:8130 & BS:6360.