

SINGLE CORE SWITCHGEAR WIRES

POLARIS - SINGLE CORE FLEXIBLE / STRANDED COPPER CONDUCTORS SWITCHGEAR WIRES 1100 V AS PER IS-694

SIZE	No of Cond. Wires	Thickness of PVC Insulation (Nom.)	Approx. Overall Diameter	Approx. Net Wt. of Cable	Max. D.C. resistance at 20°C	Current Carrying Capacity	Short Circuit rating for 1 sec.	Standard Delivery Length
Sq.mm	No.	mm	mm	Kg/Km	Ohm/Km	Amps	Kilo Amps	Mtrs
A) FLEXIBLE								
0.50 MM ²	16	0.60	2.20	9	39.00	04	0.058	100
0.75 MM ²	24	0.60	2.40	11	26.00	07	0.086	100
1.00 MM ²	32	0.60	2.55	14	19.50	12	0.115	100
1.50 MM ²	48	0.60	2.85	19	13.30	15	0.173	100
2.50 MM ²	80	0.70	3.45	30	7.98	20	0.288	100
4.00 MM ²	56	0.80	4.15	45	4.95	23	0.460	100
6.00 MM ²	84	0.80	4.75	63	3.30	35	0.690	100
10.0 MM ²	80	1.00	6.10	108	1.91	46	1.150	100
16.0 MM ²	126	1.00	7.10	161	1.21	62	1.840	100
25.0 MM ²	196	1.20	9.55	253	0.780	80	2.880	100
35.0 MM ²	276	1.20	10.80	343	0.554	102	4.030	100
50.0 MM ²	396	1.40	12.90	490	0.386	138	5.750	100
70.0 MM ²	354	1.40	14.90	677	0.272	170	8.050	100
95.0 MM ²	484	1.60	17.25	921	0.206	210	10.900	100
120.0 MM ²	608	1.60	18.95	1140	0.161	235	13.800	100
150.0 MM ²	750	1.80	21.10	1408	0.129	295	17.300	100
185.0 MM ²	925	2.00	23.80	1740	0.106	330	21.300	100
240.0 MM ²	1221	2.20	27.15	2283	0.0801	400	27.300	100
300.0 MM ²	1525	2.40	30.20	2843	0.0641	475	34.500	100
400.0 MM ²	2013	2.60	34.35	3726	0.0486	550	46.000	100
B) STRANDED								
1.00 MM ²	1	0.70	2.65	15	18.10	12	0.115	100
1.50 MM ²	7	0.70	3.10	21	12.10	15	0.173	100
2.50 MM ²	7	0.80	3.70	33	7.41	20	0.288	100
4.00 MM ²	7	0.80	4.25	49	4.61	23	0.460	100
6.00 MM ²	7	0.80	4.85	69	3.08	35	0.690	100
10.0 MM ²	7	1.00	6.15	115	1.83	46	1.150	100
16.0 MM ²	7	1.00	7.20	172	1.15	62	1.840	100
25.0 MM ²	7	1.20	8.95	270	0.727	80	2.880	100
35.0 MM ²	7	1.20	10.10	364	0.524	102	4.030	100
50.0 MM ²	19	1.40	12.10	520	0.387	138	5.750	100
70.0 MM ²	19	1.40	13.80	707	0.268	170	8.050	100
95.0 MM ²	19	1.60	16.00	960	0.193	210	10.900	100
120.0 MM ²	37	1.60	17.60	1196	0.153	235	13.800	100
150.0 MM ²	37	1.80	19.65	1496	0.124	295	17.300	100
185.0 MM ²	37	2.00	21.80	1844	0.0991	330	21.300	100
240.0 MM ²	61	2.20	24.70	2391	0.0754	400	27.300	100
300.0 MM ²	61	2.40	27.45	2971	0.0601	475	34.500	100
400.0 MM ²	61	2.60	31.40	3944	0.0470	550	46.000	100

Colour Code : Red, Yellow, Blue, Black, White or Grey .. 2) The Single core flexible cables above size 50.0 Sq.mm are generally conforming to IS:694.