

CURRENT RATING OF POLYCAP COPPER, ARMOURD / UNARMOURD CABLES 1100 V GRADE IN AIR

AREA SQ. MM.	TWIN CORE AMP.	3, 3½, 4 CORE AMP.
1.5	20	17
2.5	27	24
4	35	30
6	45	39
10	60	52
16	78	66
25	105	90
35	125	110
50	155	135
70	195	165
95	230	200
120	265	235
150	305	265
185	350	305
240	410	355
300	465	400
400	530	455

ESTIMATED FULL LOAD CURRENT FOR MOTORS

H.P.	KW	Single Phase Amp.	Three Phase Amp	Recommended Cable Size Sq. MM. Copper / Aluminium
0.5	0.37	3.7	1.0	1.5 2.5
0.75	0.55	5.0	1.3	1.5 2.5
1.00	0.75	6.5	1.9	1.5 2.5
1.50	1.10	11.5	2.6	1.5 2.5
2.0	1.50	--	3.7	1.5 2.5
3.0	2.20	--	4.8	1.5 2.5
5.0	3.70	--	7.8	1.5 2.5
7.5	5.50	--	11.2	1.5 2.5
10.0	7.50	--	16.0	2.5 4.0
12.5	9.30	--	19.0	2.5 4.0
15.0	11.00	--	22.0	4.0 6.0
20.0	15.00	--	29.0	6.0 10.0
25.0	18.50	--	34.0	10.0 16.0
30.0	22.00	--	41.0	10.0 16.0
35.0	26.00	--	47.0	16.0 25.0
40.0	30.00	--	54.0	16.0 25.0
50.0	37.00	--	67.0	25.0 35.0
60.0	45.00	--	80.0	35.0 50.0
75.0	55.00	--	97.0	50.0 70.0
100.0	75.00	--	131.0	70.0 95.0
125.0	90.00	--	152.0	95 120/150
150.0	110.0	--	191.0	150 185
180.0	132.0	--	229.0	185 240
192.0	143.0	--	248.0	185 240

The above Data is Indicative and may be revised without prior information Polycab will not be liable for any damages out of incorrect application

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NOMINAL AREA OF CONDUCTOR IN SQ.MM. SIZE	CURRENT RATING OF BUILDING WIRES & INDUSTRIAL FLEXIBLES AMP.	3, 3.5, 4 Core 1.1 kV, PVC CABLES WITH Aluminium conductors Laid		3, 3.5, 4 Core 1.1 kV, XLPE CABLES WITH Aluminium conductors Laid		3 Core-3.3 kV, 6.6 kV, 11 kV, PVC Cables with Aluminium conductors Laid		1 Core-3.3kV / 6.6 kV (E) 6.6 / 6.6 kV (UE) 6.35/11kV (E) XLPE Cables with Al.conductors laid		3 Core-1.9 / 3.3 kV (E), 3.3 / 3.3 kV (UE), 3.8 / 6.6 kV (E), 6.35/ 11 kV (E) - 35 to 400 Sq.mm, 11/11 kV (UE) - 70 to 400 Sq.mm, 12.7 / 22 kV (E), 19 / 33 kV (E)-95 to 400 Sq.mm and 33 / 33kV (UE) 120 to 400 Sq.mm XLPE Cables with Aluminium conductors laid	
		AMP	AMP	AMP	AMP	AMP	AMP	AMP	AMP	AMP	AMP
		IN AIR	IN GROUND	IN AIR	IN GROUND	IN AIR	IN GROUND	IN AIR	IN GROUND	IN AIR	IN GROUND
0.5	4	---	---	---	---	---	---	---	---	---	---
0.75	7	---	---	---	---	---	---	---	---	---	---
1	12	---	---	---	---	---	---	---	---	---	---
1.5	16	13	16	---	---	---	---	---	---	---	---
2.5	22	18	21	---	---	---	---	---	---	---	---
4	29	23	28	31	34	---	---	---	---	---	---
6	37	30	35	50	43	---	---	---	---	---	---
10	51	40	46	67	57	---	---	---	---	---	---
16	68	51	60	70	73	---	---	---	---	---	---
25	86	70	76	96	94	---	---	---	---	---	---
35	110	86	92	117	113	86	86	145	120	---	---
50	145	105	110	142	133	105	100	170	140	125	115
70	215	130	135	179	164	130	125	215	175	150	130
95	260	155	165	221	196	155	150	260	205	190	160
120	305	180	185	257	223	180	170	305	235	230	190
150	355	205	210	292	249	205	195	345	260	260	220
185	415	240	235	337	282	235	220	395	295	295	245
240	500	280	275	399	326	270	250	470	340	335	275
300	585	315	305	455	367	310	280	540	385	395	315
400	695	375	335	530	418	365	315	630	440	450	355
500	500	410	350	612	470	420	355	730	495	520	400
630	905	---	---	707	529	---	---	840	560	---	---
800	1050	---	---	---	---	---	---	960	620	---	---
1000	1185	---	---	---	---	---	---	1070	680	---	---

NOTE : 1) For Approx. current ratings for POWER CABLES with Copper conductor increase the above ratings by 25%.

NOTE : 2) The above ratings are normal ratings and will subject to derating factors for various conditions as per IS: 3961