

Engineering Information

Current Rating (a.c.) for Paper Insulated Armoured Served Three-Core Screened Lead-Covered or Three-Core SL 33KV Cables

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Current Ratings (a.c.) For paper insulated Armoured Served Three-Core Screened Lead-Covered or Three-Core SL 33 KV Cables (I.S. : 1961 - 1967 part - 1)						
Nominal Area Conductor	Direct in Ground		In single-Way Duts		In Air	
	Copper	Aluminium	Copper	Aluminium	Copper	Aluminium
mm ²	A	A	A	A	A	A
70	165	130	150	120	170	135
95	195	155	180	140	205	160
120	215	170	200	155	235	180
150	245	190	225	175	265	210
185	275	220	255	200	305	240
240	310	245	295	230	360	285
300	345	270	325	225	400	320

Rating Factors For Depth of Laying		
Depth of Laying Cm.	3,3,6,6 and 1.1 K.V. cables	22 KV and 33 K.V. Cables
	90	1.00
105	.99	1.00
120	.98	.99
150	.96	.97
180 or more	.95	.96

Note : 1. The above facts may be used cables laid in direct ground as well as in ducts and pipes.

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Nominal area of Conductor	Current Ratings for Single Circuit Single Core Rubber Insulated Sheathed or Unsheathed Unarmoured Cables According to IS : 434 (Parts I and II) - 1964 (IS : 3961 - 1968 - Part III)											
	Bunched and enclosed			Clipped Direct and Un-enclosed			Defined Conditions:					
	2 Cables, Single-Phase a.c. or d.c.			3 or 4 Cables, Three-Phase a.c.			Flat or Vertical 2 Cables Single-Phase a.c. or d.c. or 3 or 4 Cables 3-Phase			Trefoil Three-Phase		
(1) mm ²	(2) A	(3) A	(4) A	(5) A	(6) A	(7) A	(8) A	(9) A	(10) A	(11) A	(12) A	(13) A
1	11	8	9	7	13	10	11	9	10	11	12	13
1.5	14	11	12	9	17	13	15	12	15	16	17	18
2.5	18	14	15	12	22	17	20	15	20	21	22	23
4	24	19	21	16	29	22	27	21	27	28	29	30
6	31	24	25	20	37	28	34	26	34	35	36	37
10	42	32	36	28	51	39	46	36	46	47	48	49
16	57	45	49	38	68	53	62	48	62	63	64	65
25	73	56	62	48	88	68	79	61	79	80	81	82
35	88	69	75	58	107	83	96	75	96	97	98	99
50	108	84	93	72	131	102	118	91	118	119	120	121
70	133	103	114	88	161	124	143	111	143	144	145	146
95	164	127	139	108	196	152	176	137	176	177	178	179
120	190	147	161	125	224	174	203	157	203	204	205	206
150	218	164	181	142	257	199	230	179	230	231	232	233
185	248	184	203	161	293	227	264	205	264	265	266	267
225	278	206	227	181	331	257	297	230	297	298	299	300
240	300	220	240	196	344	266	310	240	310	311	312	313
300	360	270	290	230	400	310	360	279	360	361	362	363
400	480	360	390	290	488	378	438	339	438	439	440	441
500	570	440	470	350	570	442	513	398	513	514	515	516
625	655	507	530	420	655	507	591	458	591	592	593	594