

FLEXIBLE CABLES

SINGLE CORE UNSHEATHED FLEXIBLE CABLES CONFORMING SPECIFICATION IS 694

Area	Number and Size of Wires	Conductor Resistance at 20°C	Insulation Thickness	Overall Diameter	Current rating
Sq. mm	mm	ohm/km	mm	mm	Amps
0.50	16/0.2	39.00	0.60	2.20	4.00
0.75	24/0.2	26.00	0.60	2.45	7.00
1.00	32/0.2	19.50	0.60	2.60	12.00
1.50	30/0.25/45/0.2	13.00	0.60	2.90	15.00
2.50	50/0.25/80/0.2	7.8200	0.70	3.55	20.00
4.00	56/0.3	4.9500	0.80	4.20	27.00
6.00	84/0.3	3.3000	0.80	5.20	35.00
10.00	80/0.4/140/0.3	1.9100	1.00	6.70	46.00
16.00	126/0.4	1.2100	1.00	7.80	62.00
25.00	196/0.4	0.7800	1.20	9.70	80.00
35.00	276/0.4	0.5540	1.20	10.90	102.00
50.00	396/0.4	0.3860	1.40	13.20	138.00
70.00	360/0.5	0.2720	1.40	15.30	214.00
95.00	275/0.5	0.2060	1.60	17.90	260.00
120.00	608/0.5	0.1610	1.60	19.40	305.00
150.00	750/0.5	0.1290	1.80	21.90	355.00
185.00	925/0.5	0.1060	2.00	24.50	415.00
240.00	1221/0.5	0.0801	2.20	28.00	500.00

FLEXIBLE CABLES

PLAIN COPPER CONDUCTOR, PVC INSULATED AND SHEATHED 650/1100V, MULTICORE FLEXIBLE CABLES AS PER IS 694/1990											
Area	Construction	Conductor Resistance at 20°C	Core Diameter	Nominal Sheath Thickness			Approx. Overall Diameter			Max. DC resistance at 20°C	Current rating
				2 core	3 core	4 core	2 core	3 core	4 core		
Sq. mm	No./Diameter	mm	mm	mm	mm	mm	mm	mm	mm	ohm/km	amps
0.50	16/0.2	0.60	2.20	0.90	0.90	0.90	6.20	6.60	7.20	39.00	4.00
0.75	24/0.2	0.60	2.50	0.90	0.90	0.90	6.80	7.20	7.90	26.00	7.00
1.00	32/0.2	0.60	2.60	0.90	0.90	0.90	7.00	7.50	8.10	19.50	11.00
1.50	30/0.25	0.60	2.90	0.90	0.90	0.90	7.60	8.10	9.00	13.30	14.00
2.50	50/0.25	0.70	3.50	1.00	1.00	1.00	9.00	9.60	10.50	7.98	19.00
4.00	56/0.3	0.80	4.30	1.00	1.00	1.00	10.60	11.30	12.40	4.95	26.00
6.00	84/0.3	0.80	5.10	1.15	1.15	1.40	12.60	13.40	15.20	3.30	33.00
10.00	140/0.3	1.00	6.60	1.40	1.40	1.40	16.00	17.00	18.80	1.91	45.00
16.00	126/0.4	1.00	8.00	1.40	1.40	1.40	18.80	20.10	22.20	1.21	60.00
25.00	196/0.4	1.20	10.00	2.00	2.00	2.00	24.00	25.60	28.20	0.78	75.00
35.00	276/0.4	1.20	11.10	2.00	2.00	2.00	26.30	28.00	31.00	0.55	95.00
50.00	396/0.4	1.40	13.40	2.00	2.00	2.00	30.90	33.00	36.50	0.39	125.00

FLEXIBLE CABLES

SINGLE CORE / MULTICORE / PVC FLEXIBLE CABLES (1.1KV GRADE)								
CONFORMING SPECIFICATION IS 694								
Area	Sq. mm	0.50	0.75	1.00	1.50	2.50	4.00	
Number and Size of Wires	mm	16/0.2	24/0.2	32/0.2	30/0.2 or 48/0.2	50/0.2 or 80/0.2	56/0.3	
Conductor Resistance at 20°C	ohm/km	39.00	26.00	19.50	13.30	7.98	4.95	
Current rating	amps	4.00	7.00	12.00	15.00	20.00	27.00	
Thickness of Insulation	mm	0.60	0.60	0.60	0.60	0.70	0.80	
Single Core	Sheath Thickness	mm	0.90	0.90	0.90	0.90	1.00	1.00
	Overall Diameter	mm	4.00	4.25	4.50	4.80	5.45	6.30
2 Core	Sheath Thickness	mm	0.90	0.90	0.90	0.90	1.00	1.00
	Overall Diameter	mm	6.50	7.00	7.30	7.80	9.50	11.00
3 Core	Sheath Thickness	mm	0.90	0.90	0.90	0.90	1.00	1.00
	Overall Diameter	mm	6.90	7.40	7.70	8.20	10.00	11.50
4 Core	Sheath Thickness	mm	0.90	0.90	0.90	1.00	1.00	1.00
	Overall Diameter	mm	7.50	8.00	8.50	9.50	11.00	13.00
5 Core	Sheath Thickness	mm	0.90	0.90	1.00	1.00	1.00	1.00
	Overall Diameter	mm	8.30	9.00	9.50	10.50	12.00	14.00
6 Core	Sheath Thickness	mm	0.90	1.00	1.00	1.00	1.00	1.00
	Overall Diameter	mm	9.00	10.00	10.50	11.00	13.50	16.00
7 Core	Sheath Thickness	mm	0.90	1.00	1.00	1.10	1.20	1.30
	Overall Diameter	mm	9.00	10.00	10.50	11.00	13.50	16.00
8 Core	Sheath Thickness	mm	1.00	1.00	1.00	1.10	1.20	1.30
	Overall Diameter	mm	9.50	10.50	11.00	12.00	14.50	17.00
10 Core	Sheath Thickness	mm	1.00	1.10	1.00	1.10	1.30	1.40
	Overall Diameter	mm	11.50	12.50	13.50	14.50	17.50	19.50
12 Core	Sheath Thickness	mm	1.00	1.10	1.10	1.10	1.30	1.40
	Overall Diameter	mm	12.00	13.00	14.00	15.00	18.00	20.50
14 Core	Sheath Thickness	mm	1.10	1.10	1.10	1.20	1.30	1.40
	Overall Diameter	mm	12.50	14.00	14.50	16.00	19.00	22.50
16 Core	Sheath Thickness	mm	1.10	1.20	1.20	1.20	1.40	1.50
	Overall Diameter	mm	13.50	14.50	15.50	17.00	20.50	24.00
19 Core	Sheath Thickness	mm	1.10	1.20	1.30	1.30	1.40	1.50
	Overall Diameter	mm	14.50	15.50	17.00	18.00	21.50	25.50