

## TECHNICAL DATA SHEET (SINGLE CORE UNSHEATHED FLEXIBLE CABLE)

### SINGLE CORE UNSHEATHED FLEXIBLE CABLES CONFIRMING TO IS 694 : 1990 VOLTAGE GRADE UPTO 1100 VOLTS WITH ISI MARKING

AREA  (Sq. mm)	No. of wire / Nominal wire Diameter  No. / mm	Insulation Thickness (Nom.)  mm	Insulation Diameter (Approx.)  mm	Conductor Resistance @ 20° C (Max.)  Ohm / Km	Safe Current Carrying Capacity 2 wires, Single Phase		REMARKS
					In conduit/ Trunking  (Amp.)	Unenclosed clipped directly to a surface or on cable tray  (Amp.)	
0.5	19 / 0.186	0.6	2.3	39.0	4	4.5	Note: The strand diameter is nominal. However, construction of conductor is designed to satisfy the requirements of conductor resistance as per IS 8130: 1984 Class 5 Conductor
0.75	30 / 0.180	0.6	2.5	26.0	7	8	
1.0	37 / 0.186	0.6	2.8	19.5	11	12	
1.5	37 / 0.230	0.6	3.1	13.3	13	16	
2.5	61 / 0.230	0.7	3.8	7.98	18	22	
4.0	61 / 0.288	0.8	4.4	4.95	24	29	
6.0	91 / 0.288	0.8	5.0	3.30	31	37	
10	91 / 0.376	1.0	6.5	1.91	42	51	
16	144 / 0.376	1.0	7.8	1.21	57	68	
25	196 / 0.40	1.2	11.0	0.78	71	86	
35	276 / 0.40	1.2	12.5	0.554	91	100	
50	396 / 0.400	1.4	14.5	0.386	120	145	

- NOTE:** 1) Insulation thicknesses given are nominal and overall diameter is approximate.  
2) No. of wires indicated are approximate and diameter of strand is nominal. However the conductor will satisfy the resistance & construction requirement of IS 8130:1984 Class- 5.

**SINGLE CORE UNSHEATHED FLEXIBLE CABLES GENERALLY TO IS 694:1990 VOLTAGE  
GRADE UPTO 1100 VOLTS**

AREA  (Sq. mm)	No. of wire / Nominal wire Diameter  No. / mm	Insulation Thickness (Nom.)  mm	Insulation Diameter (Approx.)  mm	Conductor Resistance @ 20° C (Max.)  Ohm / Km	Safe Current Carrying Capacity 2 wires, Single Phase		REMARKS
					In conduit/ Trunking  (Amp.)	Unenclosed clipped directly to a surface or on cable tray  (Amp.)	
70	360 / 0.5	1.4	15.0	0.272	-	214	Note: The strand diameter is nominal. However, construction of conductor is designed to satisfy the requirements of conductor resistance as per IS 8130: 1984 Class 5 Conductor
95	475 / 0.5	1.6	17.5	0.206	-	260	
120	608 / 0.5	1.6	19.0	0.161	-	305	
150	750 / 0.5	1.8	22.0	0.129	-	355	

- NOTE:** 1) Sheath thicknesses given are nominal and overall diameters is approximate.  
2) No. of wires indicated are approximate and diameter of strand is nominal. However the conductor  
Will satisfy the resistance & construction requirement of IS 8130:1984 Class- 5.