

## TECHNICAL DATA SHEET (MULTI CORE CABLE)

<b>TECHNICAL DATA</b>		
Working Voltage		Up to 1100 V
Temperature range		-15 deg C to +70 deg C
Specification		IS 694:1990
Packing		In 100- meter coils, higher sizes on drum or as per requirement
<b>CORE COLOUR</b>	2 Core	Red & Black
	3 Core	Red , Black & Yellow/ Green for earth
	4 Core	Red ,Yellow, Blue, Yellow/Green for earth
	5 Core	Red ,Yellow, Blue, Black & Grey
	6 Core	Red ,Yellow, Blue, Black, Grey & Violet or Grey colour with no.print
	7 Core & Above	Gery or Black core with number coded, any other colour required on specific request, subject to confirmation.
Application		These multi core flexible cables are used for wiring in control panels, machines and various electrical installations in dry and damp interiors especially under typical industrial environmental conditions.

**MULTICORE FLEXIBLE CABLES CONFIRMING TO IS 694:1990 VOLTAGE GRADE UPTO 1100 VOLTS  
WITH ISI MARKING**

	<b>AREA SQ MM</b>	<b>0.5</b>	<b>0.75</b>	<b>1.0</b>	<b>1.5</b>	<b>2.5</b>	<b>4.0</b>
<b>Conductor</b>	No.& Size of Wire(Nom.)mm→	19 / 0.186	30 / 0.18	37 / 0.186	37 / 0.23	61 / 0.23	61 / 0.288
	Max Resistance @ 20 ° C Ohm/Km	39.0	26.0	19.5	13.3	7.98	4.95
	Current Rating (Amps)	4	7	12	15	20	27
<b>Insulation</b>	Thickness (Nom.) mm	0.6	0.6	0.6	0.6	0.7	0.8
<b>2 Core</b>	Sheath Thickness (Nom.) mm	0.9	0.9	0.9	0.9	1.0	1.0
	Overall Diameter (Approx.) mm	6.5	6.9	7.3	7.9	9.6	11.1
<b>3 Core</b>	Sheath Thickness (Nom.) mm	0.9	0.9	0.9	0.9	1.0	1.0
	Overall Diameter (Approx.) mm	6.9	7.4	7.7	8.4	10.1	11.8
<b>4 Core</b>	Sheath Thickness (Nom.) mm	0.9	0.9	0.9	1.0	1.0	1.0
	Overall Diameter (Approx.) mm	7.4	7.9	8.3	9.2	10.9	12.7
<b>5 Core</b>	Sheath Thickness (Nom.) mm	0.9	0.9	1.0	1.0	1.0	1.1
	Overall Diameter (Approx.) mm	8.3	9.0	9.5	10.2	11.9	14.2
<b>MULTICORE FLEXIBLE CABLES GENERALLY TO IS 694:1990 VOLTAGE GRADE UPTO 1100 VOLTS</b>							
<b>6 Core</b>	Sheath Thickness (Nom.) mm	0.9	0.9	1.0	1.0	1.0	1.1
	Overall Diameter (Approx.) mm	8.6	9.2	9.9	10.8	12.8	15.3

**MULTICORE FLEXIBLE CABLES GENERALLY TO IS 694:1990 VOLTAGE  
GRADE UPTO 1100 VOLTS**

	<b>AREA SQ MM</b>	<b>6.0</b>	<b>10</b>				
<b>Conductor</b>	No.& Size of Wire(Nom.)mm →	91 / 0.288	91 / 0.376				
	Max Resistance @ 20 ° C Ohm/Km	3.30	1.91				
	Current Rating (Amps)	35	46				
<b>Insulation</b>	Thickness (Nom.) mm	0.8	1.0				
<b>2 Core</b>	Sheath Thickness (Nom.) mm	1.1	1.2				
	Overall Diameter (Approx.) mm	13.0	15.5				
<b>3 Core</b>	Sheath Thickness (Nom.) mm	1.1	1.2				
	Overall Diameter (Approx.) mm	13.8	16.5				
<b>4 Core</b>	Sheath Thickness (Nom.) mm	1.2	1.3				
	Overall Diameter (Approx.) mm	15.1	17.8				

**NOTE:** 1) Sheath 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.

**MULTICORE FLEXIBLE CABLES GENERALLY TO IS 694:1990 VOLTAGE  
GRADE UPTO 1100 VOLTS**

	<b>AREA SQ MM</b> →	<b>0.5</b>	<b>0.75</b>	<b>1.0</b>	<b>1.5</b>	<b>2.5</b>
Conductor	No.& Size of Wire (Nom.) mm	19 / 0.186	30 / 0.18	37 / 0.186	37 / 0.23	61 / 0.23
	Max Resistance @ 20 ° C Ohm/Km	39.0	26.0	19.5	13.3	7.98
	Current Rating (Amps)	4	7	11	13	18
Insulation	Thickness (Nom.) mm	0.6	0.6	0.6	0.6	0.7
<b>7 Core</b>	Sheath Thickness (Nom.) mm	0.9	1.0	1.0	1.0	1.1
	Overall Diameter (Approx.) mm	8.5	9.5	10	10.8	13.0
<b>8 Core</b>	Sheath Thickness (Nom.) mm	1.0	1.0	1.0	1.1	1.2
	Overall Diameter (Approx.) mm	9.5	10.5	11.0	12.0	14.5
<b>10 Core</b>	Sheath Thickness (Nom.) mm	1.0	1.1	1.1	1.1	1.3
	Overall Diameter (Approx.) mm	11.0	12.0	13.2	14.2	16.8
<b>12 Core</b>	Sheath Thickness (Nom.) mm	1.0	1.1	1.1	1.1	1.3
	Overall Diameter (Approx.) mm	11.5	12.5	13.3	14.5	17.5
<b>14 Core</b>	Sheath Thickness (Nom.) mm	1.1	1.1	1.1	1.2	1.4
	Overall Diameter (Approx.) mm	12.5	13.2	14.0	15.2	18.5
<b>16 Core</b>	Sheath Thickness (Nom.) mm	1.1	1.2	1.2	1.2	1.4
	Overall Diameter (Approx.) mm	13.0	14.0	15.0	16.5	19.5
<b>18 Core</b>	Sheath Thickness (Nom.) mm	1.1	1.2	1.3	1.3	1.4
	Overall Diameter (Approx.) mm	13.6	15.0	16.0	17.5	20.5
<b>19 Core</b>	Sheath Thickness (Nom.) mm	1.1	1.2	1.3	1.3	1.4
	Overall Diameter (Approx.) mm	14.0	15.2	16.2	17.8	21.5
<b>24 Core</b>	Sheath Thickness (Nom.) mm	1.2	1.3	1.3	1.4	1.4
	Overall Diameter (Approx.) mm	16	17.5	18.0	20.3	24.5
<b>30 Core</b>	Sheath Thickness (Nom.) mm	1.2	1.3	1.3	1.4	1.4
	Overall Diameter (Approx.) mm	18.5	19.5	21.5	23.0	28.0

