



INDUSTRIAL CABLES
SINGLE CORE & MULTI CORE

APPLICATION

Ravicab Industrial Cables are widely used for switch boards, control panel relays, hand held power tools, UPS, Rectifier equipments, Motor Starters & controllers, power supply cords by OEM's & in industries.

PRODUCT TYPE

- ◆ Single core cables for flexible wiring for indoor, outdoor installations - 0.50 Sq. mm to 630 sq. mm
- ◆ Multi core Sheathed cables for indoor & outdoor installations - 1 core to 25 cores x 0.5 sq. mm to 50 sq. mm
- ◆ Multi core Sheathed cables for outdoor installations upto 4 core x 300 sq. mm

CONSTRUCTION

1. Conductor - Electrolytic grade high conductive annealed bare or tinned copper flexible conductor class 5 as per IS:8130
2. Insulation - General Purpose PVC insulation (70° C)-Type D
3. Cores identification

Colour Identification

Colour	Red	Yellow	Blue	Green	White	Black	Grey	Orange	Brown	Pink	Violet
Code	1	2	3	4	5	6	7	8	9	10	11
1 Core	All colors					7 Core	1, 2, 3, 4, 5, 6 & Yellow-Green				
2 Core	1 and 6					8 Core	1, 2, 3, 4, 5, 6, 7 & Yellow-Green				
3 Core	1, 6 & Yellow-Green					9 Core	1, 2, 3, 4, 5, 6, 7, 8 & Yellow-Green				
4 Core	1, 2, 3 & Yellow-Green					10 Core	1, 2, 3, 4, 5, 6, 7, 8, 9 & Yellow-Green				
5 Core	2, 3, 4, 5 & Yellow-Green					11 Core	1, 2, 3, 4, 5, 6, 7, 8, 9, 10 & Yellow-Green				
6 Core	1, 2, 3, 4, 5 & Yellow-Green					12 Core	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 & Yellow-Green				
13 to 25 cores	Two adjacent cores in each layer Blue & Yellow (reference & direction) & all other remaining cores Grey. (Alternatively from 6 core to 25 core, same color cores, either Black or Grey, with number coded and with Yellow-Green in outermost layer as last core can be supplied).										

4. Sheath - General Purpose PVC sheath (70°C) - Type ST3
Heat Resistant PVC sheath (85°C) - Type ST2

Note : FR / FR-LSH or ZHFR Cables can be manufactured against request.

FLAME / FIRE RESISTANCE PERFORMANCE

S. No	Test	Standard	Value
1	Flammability test	IS: 694	Extinguish <6 sec and Max decompose 50 mm
2	Halogen acid gas evolution	IEC 60754- 1	< 0.5% for ZHFR and < 20% for FR/FR-LSH cables
3	Corrosive gases	IEC 60754- 2	pH - >4.3 and Conductivity < 100 μS/cm
4	Toxicity index	IEC 60754- 2	Max 5%
5	Oxygen Index	ASTM D 2863	Min 29%
6	Temperature Index	ASTM D 2863	Min 250 deg C
7	Smoke density rating	ASTM D 2843	Max 20% for ZHFR and Max 40% for FR-LSH cables



Single core Unsheathed cables with Flexible Copper Conductor - General Purpose - 70°C or 85°C

Nominal Cross sectional area of conductor in Sq. mm	Nominal Thickness of Insulation in mm	Maximum overall diameter in mm	Max. DC Resistance Ohm / Km At 20° C	Current Rating in Amps	Nominal Cross sectional area of conductor in Sq. mm	Nominal Thickness of Insulation in mm	Maximum overall diameter in mm	Max. DC Resistance Ohm / Km At 20° C	Current Rating in Amps
0.5	0.6	2.6	39.00	4	35	1.2	11.7	0.554	110
0.75	0.6	2.8	26.00	7	50	1.4	13.9	0.386	145
1	0.6	3.0	19.50	12	70	1.4	16.0	0.272	215
1.5	0.7	3.4	13.30	16	95	1.6	18.2	0.206	260
2.5	0.8	4.1	7.98	22	120	1.6	20.2	0.161	305
4	0.8	4.8	4.95	29	150	1.8	22.5	0.129	355
6	0.8	5.3	3.30	37	185	2.0	24.9	0.106	415
10	1.0	7.0	1.91	51	240	2.2	28.4	0.0801	500
16	1.0	8.1	1.21	68	300	2.4	31.0	0.0641	585
25	1.2	10.2	0.78	86	400	2.6	32.2	0.0486	695

Multi core Sheathed Flexible cables - General Purpose- 70° or 85° C

Nom. cross sectional area of conductor	Nominal thickness of insulation	Max. DC Resistance At 20° C	Nominal thickness of sheath				Maximum overall diameter				Current Ratings in Amps
			2 core	3 core	4 core	5 core	2 core	3 core	4 core	5 core	
Sq.mm	mm	Ohm/Km	mm	mm	mm	mm	mm	mm	mm	mm	-
0.5	0.6	39.0	0.90	0.9	0.9	0.9	6.9	7.3	8.0	8.7	4
0.75	0.6	26.0	0.9	0.9	0.9	0.9	7.3	7.7	8.4	9.2	7
1	0.6	19.5	0.9	0.9	0.9	1.0	7.6	8.1	8.8	9.6	12
1.5	0.6	13.3	0.9	0.9	1.0	1.0	8.9	9.4	10.4	11.4	16
2.5	0.7	7.98	1.0	1.0	1.0	1.0	10.3	10.9	12.0	13.2	22
4	0.8	4.65	1.0	1.0	1.0	1.1	11.6	12.4	13.6	15.3	29
6	0.8	3.30	1.1	1.2	1.2	-	13.0	13.8	15.4	-	37
10	1.0	1.91	1.3	1.4	1.4	-	16.5	17.6	19.5	-	51
16	1.0	1.21	1.4	1.4	1.4	-	19.4	20.6	23.0	-	68
25	1.2	0.780	1.4	1.5	1.6	-	23.8	25.6	28.5	-	86
35	1.2	0.554	1.6	1.6	1.7	-	27.2	29.3	32.7	-	110
50	1.4	0.386	2.0	2.0	2.0	-	32.0	34.6	38.6	-	145
70	1.4	0.272	2.2	2.2	2.2	-	36.8	39.6	44.3	-	215
95	1.6	0.206	2.4	2.4	2.4	-	41.8	47.0	50.2	-	260
120	1.6	0.161	2.5	2.9	3.1	-	46.2	51.0	55.7	-	305



Flexible PVC Insulated & Sheathed circular cables - General Purpose- 70° or 85° C

No. of Cores	0.5 Sq. mm			0.75 Sq. mm			1 Sq. mm		
	Max. CR at 20°C - 39.0 Ohm/Km Current rating - 4 Amp			Max. CR at 20°C - 26.0 Ohm/Km Current rating - 7 Amp			Max. CR at 20°C - 19.5 Ohm/Km Current rating - 12 Amp		
	Nom Ins. Thickness	Nom Sheath Thicknes	Max. Overall Diameter	Nom Ins. Thickness	Nom Sheath Thicknes	Max. Overall Diameter	Nom Ins. Thickness	Nom Sheath Thicknes	Max. Overall Diameter
	mm	mm	mm	mm	mm	mm	mm	mm	mm
6	0.6	0.9	9.5	0.6	1.0	10.0	0.6	1.0	10.5
7	0.6	0.9	9.5	0.6	1.0	10.0	0.6	1.0	10.5
8	0.6	1.0	11.1	0.6	1.0	11.8	0.6	1.0	12.4
9	0.6	1.0	11.8	0.6	1.1	12.4	0.6	1.1	13.1
10	0.6	1.0	12.0	0.6	1.1	12.7	0.6	1.1	13.4
11	0.6	1.0	12.0	0.6	1.1	12.7	0.6	1.1	13.4
12	0.6	1.0	12.4	0.6	1.1	13.1	0.6	1.1	13.9
13	0.6	1.0	13.1	0.6	1.1	13.8	0.6	1.1	14.6
14	0.6	1.1	13.1	0.6	1.1	13.8	0.6	1.1	14.6
15	0.6	1.1	13.5	0.6	1.2	14.3	0.6	1.2	15.1
16	0.6	1.1	13.8	0.6	1.2	14.6	0.6	1.2	15.4
17	0.6	1.1	14.6	0.6	1.2	15.4	0.6	1.2	16.3
18	0.6	1.1	14.6	0.6	1.2	15.4	0.6	1.3	16.3
19	0.6	1.1	14.6	0.6	1.2	15.4	0.6	1.3	16.3
20	0.6	1.2	15.4	0.6	1.3	16.3	0.6	1.4	17.3
21	0.6	1.2	15.4	0.6	1.3	16.3	0.6	1.4	17.3
22	0.6	1.2	16.3	0.6	1.3	17.3	0.6	1.4	18.2
23	0.6	1.2	16.3	0.6	1.3	17.3	0.6	1.4	18.2
24	0.6	1.2	17.1	0.6	1.3	18.2	0.6	1.4	19.2
25	0.6	1.2	17.1	0.6	1.3	19.0	0.6	1.4	19.2

Flexible PVC Insulated & Sheathed circular cables - General Purpose- 70° or 85° C

No. of Cores	1.5 Sq. mm			2.5 Sq. mm		
	Max. CR at 20°C - 13.3 Ohm/Km Current rating - 16 Amp			Max. CR at 20°C - 7.98 Ohm/Km Current rating - 22Amp		
	Nom Ins. Thickness	Nom Sheath Thicknes	Max. Overall Diameter	Nom Ins. Thickness	Nom Sheath Thicknes	Max. Overall Diameter
	mm	mm	mm	mm	mm	mm
6	0.6	1.0	12.4	0.7	1.1	14.5
7	0.6	1.0	12.4	0.7	1.1	14.5
8	0.6	1.1	14.7	0.7	1.2	17.3
9	0.6	1.1	15.6	0.7	1.3	18.3
10	0.6	1.1	16.0	0.7	1.3	18.7
11	0.6	1.1	16.0	0.7	1.3	18.7
12	0.6	1.1	16.5	0.7	1.3	19.4
13	0.6	1.2	17.4	0.7	1.3	20.5
14	0.6	1.2	17.4	0.7	1.3	20.5
15	0.6	1.2	18.1	0.7	1.4	21.3
16	0.6	1.2	18.4	0.7	1.4	21.7
17	0.6	1.3	19.5	0.7	1.4	23.0
18	0.6	1.3	19.5	0.7	1.4	23.3
19	0.6	1.3	19.5	0.7	1.4	23.8
20	0.6	1.4	20.7	0.7	1.5	24.4
21	0.6	1.4	20.7	0.7	1.5	25.0
22	0.6	1.4	21.9	0.7	1.5	25.8
23	0.6	1.4	21.9	0.7	1.5	26.3
24	0.6	1.4	23.0	0.7	1.5	27.2
25	0.6	1.4	23.0	0.7	1.5	27.9

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