



  
**INSUCON**

## **FLEXIBLE PVC WIRES & CABLES**



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**INSUCON** *CABLES AND CONDUCTORS PRIVATE LIMITED*

"INSUCON" has established itself as manufacturer and supplier of Power & Control Cables, Instrumentation Cables, Fire Survival Cables & Flexible Wires of various leading customers in industry, projects, domestic, commercial & power network over two decades now.

"INSUCON" has developed an extensive range of PVC Flexible wires to meet the requirement of its customers. All the products are manufactured as per IS : 694 / 2010

## CONSTRUCTION DETAIL OF "INSUCON" FLEXIBLE WIRES

**CONDUCTOR** : Electrolytic grade, high conductivity solid / stranded / flexible, plain / tinned copper conductor as per IS : 8130 / 2013

**INSULATION** : PVC insulation of heat resistance PVC compound by extrusion process with automatic diameter control.

**SHEATH** : In case of Sheathed flexible cable the outer sheath is provided of PVC by extrusion process with automatic diameter control.

**NOTE** : "INSUCON" Flexible wires can also be supplied with HR / FR / FRLSH PVC insulation and outer sheath as per the requirement of the customers.

**A :** INSUCON Single Core PVC insulated Flexible Copper Conductor Unsheathed heavy duty Electric wires in Voltage grade upto & including 1100 volts as per IS : 694 / 2010 Supplied in 90 / 100 / 200 meters Coil.

Conductor Area (Sq.mm)	Conductor Construction No./dia mm	Current Carrying Capacity (AMPS)	Nominal Thickness of Insulation (mm)	Max, DC Resistance (OHM/km) at 20° C	Overall Diameter (mm) (Approx)
0.50	16/0.20	4	0.60	39.0	2.2
0.75	24/0.20	7	0.60	26.0	2.5
1.0	32/0.20	11	0.60	19.5	2.8
1.5	48/0.20	14	0.60	13.3	3.1
2.5	80/0.20	19	0.70	7.98	3.8
4.0	56/0.30	26	0.80	4.95	4.4
6.0	84/0.30	33	0.80	3.30	5.2
10.0	80/0.40	45	1.00	1.91	6.6
16.0	126/0.40	60	1.00	1.21	7.8
25.0	196/0.40	75	1.20	0.780	9.7
35.0	276/0.40	95	1.20	0.554	10.9
50.0	396/0.40	125	1.40	0.386	13.2
70.0	354/0.50	170	1.40	0.272	14.6
95.0	484/0.50	210	1.60	0.206	16.6
120.0	608/0.50	235	1.60	0.161	18.5
150.0	750/0.50	295	1.80	0.129	21.2
185.0	925/0.50	330	2.0	0.106	24.4
240.0	1221/0.50	400	2.20	0.0801	27.6
300.0	1527/0.50	475	2.40	0.0641	31.2
400.0	2036/0.50	550	2.60	0.0486	35.6
500.0	2540/0.50	635	2.80	0.0384	38.0
630.0	3200/0.50	725	2.80	0.0287	44.0

**B : INSUCON PVC insulated Unsheathed Single Core Industrial Wires with bright Annealed Bare/Copper Solid/Stranded Conductor as per IS : 694 / 2010 Supplied in 90 / 100 / 200 meters Coil.**

Conductor Area (Sq.mm)	No. of Strands/ Conductor dia(mm)	Current Carrying Capacity (AMPS)	Standard Resistance at 20° C (Ohm/km)	Nominal Thickness of Insulation (mm)	Overall Diameter (mm) (Approx)
1.0	1/1.13	12	18.100	0.70	2.65
1.5	7/0.53	16	12.100	0.70	3.10
2.5	7/0.67	22	7.410	0.80	3.75
4.0	7/0.85	29	4.610	0.80	4.30
6.0	7/1.04	37	3.080	0.80	4.90
10.0	7/1.35	45	1.830	1.00	6.20
16.0	7/1.70	60	1.150	1.00	7.30
25.0	7/2.14	75	0.727	1.20	9.00
35.0	7/2.52	95	0.524	1.20	10.00
50.0	19/1.78	125	0.387	1.40	11.90
70.0	19/2.14	170	0.268	1.40	13.70
95.0	19/2.52	210	0.193	1.60	15.90
120.0	37/2.03	235	0.153	1.60	17.60
150.0	37/2.25	295	0.124	1.80	19.54
185.0	37/2.52	-	0.099	2.00	22.70
240.0	37/2.85	-	0.075	2.20	25.40
300.0	37/3.22	-	0.060	2.40	28.70
400.0	61/2.89	-	0.047	2.60	32.60
500.0	61/3.23	-	0.036	2.80	36.80
630.0	61/3.60	-	0.028	3.00	40.50

**C : INSUCON PVC Insulated & Sheathed Bare / Flexible Copper Conductor Single / Multi Core Industrial Cables Voltage Grade 1100 Volts as per IS : 694 / 2010 Supplied in 90 / 100 / 200 meters Coil.**

Conductor Area (Sq.mm)	Conductor Construction (No. / Dia in mm)	Current Carrying Capacity (Amps)	Max. DC Resistance at 20°C (Ohm/Km)	Nominal Thickness of Insulation (mm)	Nominal Thickness of Sheath			Approx. Overall Diameter of Cable		
					2 Core (mm)	3 Core (mm)	4 Core (mm)	2 Core (mm)	3 Core (mm)	4 Core (mm)
0.50	16/0.20	4	39.000	0.60	0.90	0.90	0.90	6.2	6.6	7.2
0.75	24/0.20	7	26.000	0.60	0.90	0.90	0.90	6.5	6.9	7.6
1.0	32/0.20	11	19.500	0.60	0.90	0.90	0.90	6.9	7.3	8.2
1.5	30/0.25	14	13.300	0.60	0.90	0.90	1.00	7.6	8.2	9.3
2.5	50/0.25	19	7.980	0.70	1.00	1.00	1.00	9.0	9.6	10.5
4.0	56/0.30	26	4.950	0.80	1.00	1.00	1.00	10.3	10.9	12.3
6.0	84/0.30	33	3.300	0.80	1.10	1.20	1.20	12.1	12.9	14.3
10.0	80/0.40	45	1.910	1.00	1.30	1.40	1.40	16.2	17.2	19.2
16.0	126/0.40	60	1.210	1.00	1.40	1.40	1.40	17.4	18.5	20.6
25.0	196/0.40	75	0.780	1.20	1.40	1.50	1.60	22.4	24.2	25.9
35.0	276/0.40	95	0.554	1.20	1.60	1.60	1.70	25.6	27.4	30.5
50.0	396/0.40	125	0.386	1.40	2.00	2.00	2.00	30.6	33.0	36.5
70.0	354/0.50	170	0.276	1.40	2.20	2.20	2.20	35.0	37.7	41.7
95.0	484/0.50	210	0.206	1.60	2.40	2.40	2.40	40.2	43.5	47.8
120.0	608/0.50	235	0.161	1.60	2.50	2.50	2.50	43.0	46.5	51.5
150.0	750/0.50	295	0.129	1.80	-	2.60	2.60	-	54.0	59.0
185.0	925/0.50	330	0.106	2.00	-	2.80	2.80	-	60.5	66.5
240.0	1221/0.50	400	0.0801	2.20	-	3.00	3.00	-	69.0	75.3
300.0	1527/0.50	475	0.0641	2.40	-	3.20	3.20	-	75.0	82.2

Note : PVC Insulated & Sheathed Bare / Flexible Multicore Cable can be manufactured for more than 4 Core, as per IS / Customer's requirement.

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