



INFINITY NETWORKS PVT. LTD.

B-97 A, Mayapuri Industrial Area Phase – 1, New Delhi 110064, India  
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# PVC Insulated Cables

## Technical Data

**Conductor:** Electrolytic Grade Bright Annealed Bare Copper as per IS8130/1984.

**Insulation:** PVC compound offering high insulation resistance and dielectric strength as per IS 5831/1984.

### Single Core, Unsheathed Cables in Voltage Grade 1100V

Nominal area of conductor	Number/Nom dia. of wire	Thickness of insulation (Nom.)	Approx. Overall Dia.	Current carrying capacity # 2 cables, single phase		Resistance (Max.) per km @20°C
				In conduit / Trunking	Unenclosed-clipped directly to a surface or on cable tray	
sq. mm	mm	mm	mm	amps	amps	Ω
1.0	14/0.3*	0.7	2.8	11	12	18.100
1.5	22/0.3*	0.7	3.1	13	16	12.100
2.5	36/0.3*	0.8	3.8	18	22	7.410
4.0	56/0.3**	0.8	4.4	24	29	4.950
6.0	84/0.3**	0.8	5.0	31	37	3.300

Standard Colours: Black, Red, Blue, Yellow and Green (for earthing). Supplied in 90 meter lengths in attractive cartons

# As per IS 3961 (Part V) – 1968

BIS Licence No. CML –8510871

\* As per conductor Class 2 of IS: 8130 / 1984

\*\* As per conductor Class 5 of IS:8130/1984

10.0	84/0.4 or 140/0.3	1.0	6.6	42	51	1.910
16.0	126/0.4	1.0	7.8	57	68	1.210
25.0	196/0.4	1.2	9.7	71	86	0.780
35.0	276/0.4	1.2	10.9	91	110	0.554
50.0	396/0.4	1.4	13.2	120	145	0.386

Standard Colour: Black, Red, Blue and Yellow  
Supplied in 100 metre lengths in coils

Other Colours on request  
Conform to IS 694:1990

Above sized are as per conductor Class 5 of IS:8130/1984  
Supplied in BIS Licence No. CML –8510871

Nominal area of conductor Sq. mm	Number/Nom dia. of wire mm	Thickness of insulation (Nom.) mm	Approx. Overall Diameter mm	Current Carrying Max Capacity Amps.	Resistance (Max.) per km @20°C Ω
70	360 /0.5	1.8	16.15	214	0.272
95	475 / 0.5	1.9	18.75	254	0.206
120	608 / 0.5	2.1	21.25	300	0.161
150	750 /0.5	2.1	22.25	340	0.129
185	925 /0.5	2.5	25.5	390	0.106
240	1221 /0.5	2.5	28.5	460	0.0801

Standard Colour: Black, Red, Blue and Yellow.  
Supplied in 100 metre lengths in coils

Other Colours on request  
Conform to IS 694:1990

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### Multicore Round Insulated Copper Conductor and Sheathed Black Flexible Cables 1100 Voltage Grade

Nominal cross sectional area of conductor Sq. mm	No./Nominal dia. of cond. strands mm	Nominal thick. of insulation mm	Nominal Thickness of Sheet			Approx. Overall Diameter			Current Rating A/C amps	Voltage Drop		Max. Cond. Resistance at 20°C Ohm/km
			Two Core mm	Three Core mm	Four Core mm	Two Core mm	Three Core mm	Four Core mm		DC or Single Phase AC mV	3-Phase AC mV	
0.5	16 /0.20	0.6	0.9	0.9	0.9	6.2	6.6	7.2	4	83	72	39.0
0.75	24 /0.20	0.6	0.9	0.9	0.9	6.5	6.9	7.6	7	56	48	26.0
1.0	32 /0.20	0.6	0.9	0.9	0.9	6.9	7.3	8.2	11	43	37	19.5
1.5	30 /0.25	0.6	0.9	0.9	1.0	7.6	8.2	9.3	15	31	26	13.3
2.5	50 /0.25	0.7	1.0	1.0	1.0	9.0	9.6	10.5	20	18	16	7.98
4.0	56 /0.30	0.8	1.0	1.0	1.0	10.3	10.9	12.3	26	11	9.6	4.95

Note: Supplied in 100 meter length with black outer sheath. Any colour on specific request can be supplied, in economical run. The number & diameter of conductor strands are for reference only. Conductor resistance as per IS:8130 is the governing criteria.

### Three Core Flat Flexible Industrial Cable for submersible Pump Motors 1100 Voltage Grade

Nominal area of conductor mm	Number / Size of wire for each core	INSULATION		SHEATH (Overall dimensions)		Max. Conductor Resistance at 20°C (Max.) Ohm/km	Current Carrying Cap. at 40°C amps
		Thickness (nominal) mm	Core Dia. (nominal) mm	Width (W) (nominal) mm	Thickness (T) (nominal) mm		
1.50	22 /0.30	0.8	3.25	12.8	6.0	13.3	14
2.50	36 /0.30	0.9	3.9	14.6	6.4	7.98	18
4.00	56 /0.30	1.0	4.65	17.2	7.4	4.95	26
6.00	84 /0.30	1.0	5.3	18.7	7.9	3.3	31
10.00	140 /0.30	1.0	6.6	23.7	9.9	1.91	42
16.00	226 /0.30	1.0	8.2	28.0	11.4	1.21	57
25.00	354 /0.30	1.2	10.1	35.5	14.7	0.78	72
35.00	495 /0.30	1.2	11.5	39.5	16.2	0.554	90

Note: Supplied in 500 +/- 5% meter packing on drums. Can also be supplied 100 +/- meter packing on request. The number & diameter of conductor strands are for reference only. Conductor resistance as per IS:8130 is the governing criteria.

