

INSTRUMENTATION CABLES

POLARIS - INSTRUMENTATION CABLES 1100 V GENERALLY CONFORMING TO IS-694

Nominal Cross Sectional Area	Approx. No. of Cond/Dia of wires	Max. D.C. resistance at 20°C	Current Carrying Capacity	Thickness of PVC Insulation (Nom.)	2 CORE			3 CORE			4 CORE		
					Thick of PVC Outer sheath	Approx. Overall Diameter	Approx. Net Wt. of Cable	Thick of PVC Outer sheath	Approx. Overall Diameter	Approx. Net Wt. of Cable	Thick of PVC Outer sheath	Approx. Overall Diameter	Approx. Net Wt. of Cable
mm ²	mm	Ohm/Km	Amps	mm	mm	mm	(kg/Km)	mm	mm	(kg/Km)	mm	mm	(kg/Km)
0.50	16/0.20	39.00	04	0.60	0.90	8.25	96	0.90	8.50	104	0.90	9.15	122
0.75	24/0.20	26.00	07	0.60	0.90	8.65	107	0.90	8.95	119	0.90	9.60	139
1.00	32/0.20	19.50	12	0.60	0.90	9.00	119	0.90	9.30	132	0.90	10.00	156
1.50	48/0.20	13.30	15	0.60	0.90	9.50	137	0.90	9.90	156	1.00	10.70	186
2.50	80/0.20	7.98	20	0.70	1.00	11.00	188	1.00	11.50	217	1.00	12.50	262
4.00	56/0.30	4.95	23	0.80	1.00	12.30	240	1.00	13.00	287	1.00	14.30	356
6.00	84/0.30	3.30	35	0.80	1.10	13.60	306	1.10	14.30	368	1.20	16.00	468
10.00	80/0.40	1.91	46	1.00	1.20	16.60	472	1.20	17.30	566	1.30	19.30	719
16.00	126/0.40	1.21	62	1.00	1.30	19.30	671	1.30	20.20	815	1.40	22.50	1036
25.00	196/0.40	0.780	80	1.20	1.40	24.40	1029	1.50	25.80	1261	1.60	28.80	1602
35.00	276/0.40	0.554	102	1.20	1.50	27.10	1320	1.60	28.60	1626	1.70	32.00	2081
50.00	396/0.40	0.386	138	1.40	1.60	31.70	1823	1.70	33.50	2257	1.80	37.60	2904

Notes :

1) Colour Code :

Two core : Red & Black

Three core : Red, Black & Green

Four core : Red, Yellow, Blue & Green

2) As per international practice, when as also adopted by BIS, the size of conductor is decided by its resistance only. The construction of conductor is maintained within requirements of IS:8130-1984 as presented by IS:694.