

## MULTICORE FLEXIBLE COPPER CABLES

### POLARIS - MULTI CORE FLEXIBLE PVC INSULATED / SHEATHED CABLES 1100 V AS PER 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 <sup>2</sup>	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	6.15	51	0.90	6.40	57	0.90	7.05	71
0.75	24/0.20	26.00	07	0.60	0.90	6.55	60	0.90	6.85	69	0.90	7.50	85
1.00	32/0.20	19.50	12	0.60	0.90	6.90	68	0.90	7.20	80	0.90	7.90	98
1.50	48/0.20	13.30	15	0.60	0.90	7.45	84	0.90	7.80	100	1.00	8.80	129
2.50	80/0.20	7.98	20	0.70	1.00	8.95	126	1.00	9.35	150	1.00	10.35	189
4.00	56/0.30	4.95	23	0.80	1.00	10.35	175	1.00	10.85	213	1.00	12.05	270
6.00	84/0.30	3.30	35	0.80	1.10	11.65	234	1.10	12.20	286	1.20	13.80	373
10.00	80/0.40	1.91	46	1.00	1.20	14.55	378	1.20	15.30	469	1.30	17.25	608
16.00	126/0.40	1.21	62	1.00	1.30	16.80	535	1.30	17.70	673	1.40	19.95	875
25.00	196/0.40	0.780	80	1.20	1.40	21.90	855	1.50	23.25	1072	1.60	26.20	1390
35.00	276/0.40	0.554	102	1.20	1.50	24.60	1125	1.60	26.10	1421	1.70	29.45	1846
50.00	396/0.40	0.386	138	1.40	1.60	29.00	1580	1.70	30.75	1997	1.80	34.70	2596

**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**

**3) The multicore cables above size 4.00 Sq.mm are generally conforming to IS:694.**