

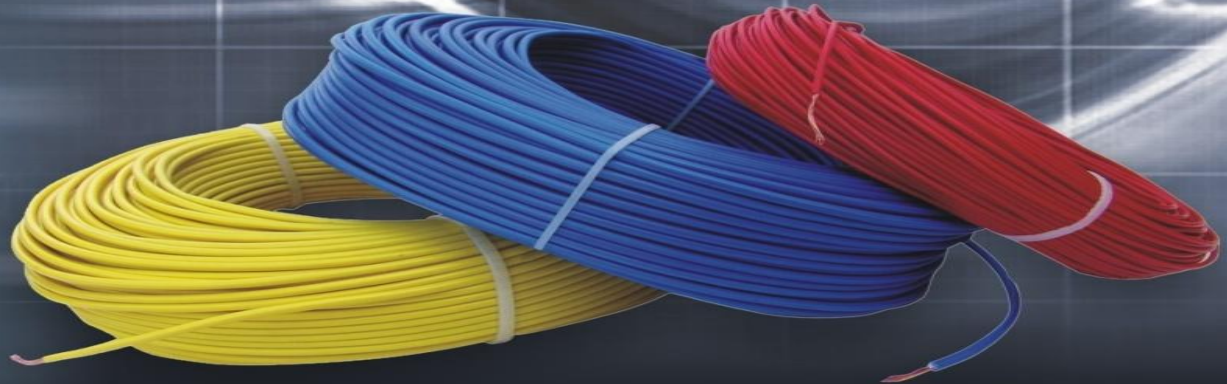
An ISO 9001:2000 Co.

TM

KI

Wire

Secure Electrification with trust of KI Wires
PVC INSULATED CABLES
For Domestic and Industrial Use



Mfd. / Mktd. by : **KIRANOTICS Cables**
An ISO 9001 : 2000 Co.
Email: kiwires@rediffmail.com

**PREVENTS
YOUR
HOME**

Single Core unsheathed cables in Voltage Grade 1000V

Normal Area of Conductor	Numbers/ Nom. Dia of Wire	Thickness of Insulation	Approx Overall Diameter	Current carrying capacity #		Resistance (max.) per Km@20°C
				In Cduit	In Surface	
Sq. mm	mm	mm	mm	Amps	Amps	Ohms
0.75	24/.2	0.6	2.3	6	7	26.0
1.0	32/.2	0.7	2.8	11	12	18.10
1.5	48/.2	0.7	3.1	13	16	12.10
2.5	36/.3	0.8	3.8	18	22	7.41
4.0	56/.3	0.8	4.4	24	29	4.95
6.0	84/.3	0.8	5.0	31	37	3.30




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PVC Insulated Power & Control Cables



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IS-1554

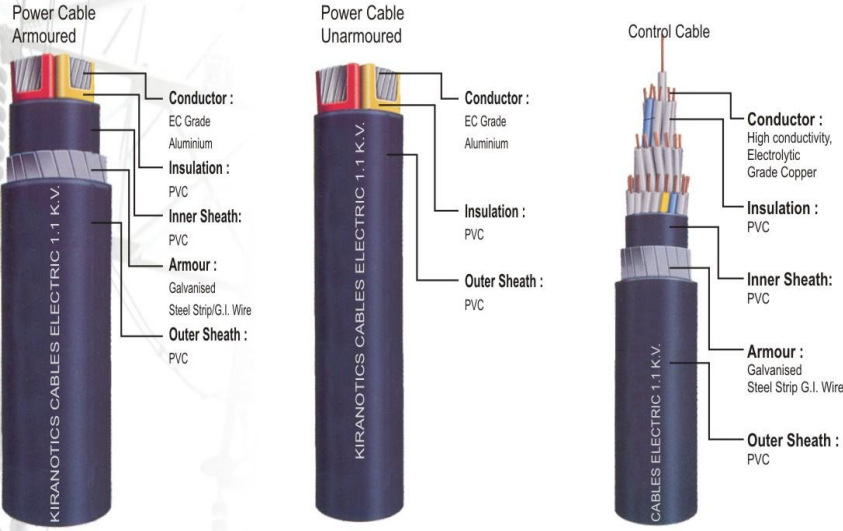
 IS-694

All Information given herein is in good faith. KBM Cables shall not be liable for any damages arising out of incorrect use or Wrong interpretation. The Company reserves the right to change any of the above specifications without any prior notice.

TYPICAL EXAMPLES OF DESIGN & CONSTRUCTION



Aluminium Conductor, PVC Insulated, PVC Sheathed Cable



CORE IDENTIFICATION

For power Cable and Control cable upto 5 cores, the cores are identified by different colours.
 Single core : Red, Black, Yellow or blue
 2 core : Red and Black
 3 core : Red, Yellow and Blue
 3 1/2 core : Red, Yellow, Blue and reduced neutral core in Black
 4 core : Red, Yellow, Blue and Black
 5 core : Red, Yellow, Blue, Black and Gray

Where the number of core exceed 5, two adjacent cores are blue for reference and yellow for direction in each layer. The remaining cores in each layer are gray.

On specific request we can also provide core numbering for control cables.

TYPE DESIGNATION

The following code is used for designating the type of Cable :-

PRODUCT CODE

Aluminium Conductor (No abbreviations are used for copper.)
 PVC insulation
 Steel round wire armour
 Steel strip armour
 Steel double round wire armour
 Steel double strip armour
 PVC outer sheath
 Al wire armour

This product code is stenciled on the surface of the drum flange.

Note : Conductor construction classified as :

- f_s : single strand
- f_m : multi-stranded circular
- s_m : sector shaped

A
Y
W
F
WW
FF
Y
AW

1 core Unarmoured (AYY)/ Armoured (AYAWY) Cable - 1100 Volts

Nom. Cross Sectional Area Sq.mm	Unarmoured			Armoured			Max. DC Conductor Resistance at 20° C Ohm/km	A.C. Current Rating	
	Nom. Thickness of PVC insulation mm	Approx. Overall Dia. mm	Nom. Thickness of PVC insulation mm	Nom. Dia. of Aluminium wire for Armour mm	Approx. Overall Dia. mm	In Air Cable Amps		In Ground Cable Amps	
2.5	0.9	8.00	1.2	1.4	10.2	12.1	21	24	
4.0	1.0	8.70	1.3	1.4	10.9	7.41	27	31	
6.0	1.0	9.20	1.3	1.4	11.5	3.08	35	39	
10.0	1.0	10.2	1.3	1.4	12.9	4.61	47	51	
16.0	1.0	11.5	1.3	1.4	13.8	1.91	64	66	
25.0	1.2	13.3	1.5	1.4	15.6	1.20	84	86	
35.0	1.2	14.4	1.5	1.4	16.6	0.868	105	100	
50.0	1.4	15.8	1.7	1.4	18.0	0.641	130	120	
70.0	1.4	18.1	1.7	1.4	20.7	0.443	155	140	
95.0	1.6	19.9	1.9	1.6	22.9	0.320	190	175	
120.0	1.6	22.2	1.9	1.6	24.8	0.253	220	195	
150.0	1.8	22.6	2.1	1.6	26.8	0.206	250	220	
185.0	2.0	26.0	2.3	1.6	28.6	0.164	290	240	
240.0	2.2	29.0	2.5	1.6	31.9	0.125	335	270	
300.0	2.4	31.7	2.7	2.0	34.6	0.100	380	295	
400.0	2.6	35.7	3.0	2.0	39.2	0.0778	435	325	
500.0	3.0	39.0	3.4	2.0	42.9	0.0605	480	345	

4 Core, Unarmoured / Armoured Cable - 1100 Volts

Nom. Cross Sectional Area Sq.mm	Nom. Thickness of PVC insulation mm	Unarmoured		Armoured		Max. DC Conductor Resistance at 20° C Ohm/km	A.C. Current Rating	
		Approx. Overall Dia. mm	Nom. Steel Armour Size W F	Approx. Overall Dia. mm	In Air Amps		In Ground Amps	
2.5	0.9	15.5	1.4	17.0	12.100	18	21	
4.0	1.0	17.5	1.4	19.0	7.4100	23	28	
6.0	1.0	18.5	1.4	20.5	4.6100	30	35	
10.0	1.0	21.5	4x0.8	22.0	3.0800	40	46	
16.0	1.0	24.0	4x0.8	24.0	1.9100	51	60	
25.0	1.2	24.5	4x0.8	25.5	1.2000	70	76	
35.0	1.2	26.5	4x0.8	27.5	0.8680	86	92	
50.0	1.4	30.0	4x0.8	31.5	0.6410	105	110	
70.0	1.4	34.0	4x0.8	36.0	0.4430	130	135	
95.0	1.6	38.5	4x0.8	40.0	0.3200	155	165	
120.0	1.6	42.0	4x0.8	44.0	0.2530	180	185	
150.0	1.8	48.5	4x0.8	48.0	0.2060	205	210	
185.0	2.0	53.0	4x0.8	52.5	0.1640	240	235	
240.0	2.2	59.5	4x0.8	59.0	0.1250	280	275	

3 1/2 Core, Unarmoured / Armoured Cable - 1100 Volts

Nom. Cross Sectional Area Sq.mm	Nom. Thickness of PVC insulation mm	Unarmoured			Armoured			Max. DC Conductor Resistance at 20° C Ohm/km	A.C. Current Rating	
		Approx. Overall Dia. mm	Nom. Steel Armour Size mm	Nom. Thickness of PVC insulation mm	Approx. Overall Dia. mm	In Air Amps	In Ground Amps			
25	1.2	24.0	4x0.8	24.5	1.2000	70	76			
35	1.2	26.0	4x0.8	26.50	0.8680	86	92			
50	1.4	29.0	4x0.8	30.0	0.6410	105	110			
70	1.4	34.0	4x0.8	34.5	0.4430	130	135			
95	1.6	37.0	4x0.8	38.0	0.3200	155	165			
120	1.6	41.0	4x0.8	42.0	0.2530	180	185			
150	1.8	46.0	4x0.8	46.0	0.2060	205	210			
185	2.0	49.0	4x0.8	50.0	0.1640	240	235			
240	2.2	56.0	4x0.8	56.0	0.1250	280	275			

2 Core, Unarmoured / Armoured Cable - 1100 Volts

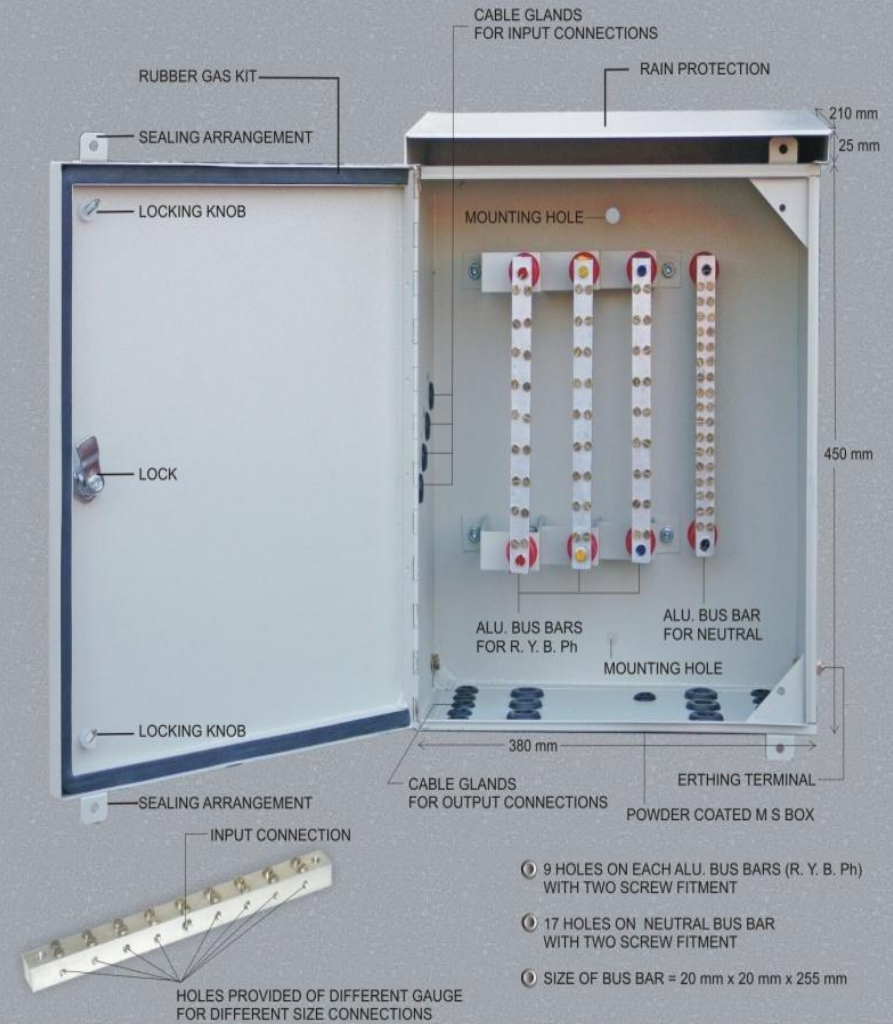
Nom. Cross Sectional Area Sq.mm	Nom. Thickness of PVC insulation mm	Unarmoured		Armoured		Max. DC Conductor Resistance at 20° C Ohm/km	A.C. Current Rating	
		Approx. Overall Dia. mm	Nom. Steel Armour Size W F	Nom. Thickness of PVC insulation mm	In Air Amps		In Ground Amps	
2.5	0.9	13.8	1.4	15.5	12.1	21	25	
4.0	1.0	15.5	1.4	15.8	7.41	27	32	
6.0	1.0	16.5	1.4	17.0	3.08	35	40	
10.0	1.0	18.4	1.4	19.2	4.61	47	55	
16.0	1.0	20.5	4x0.8	21.2	1.91	59	70	
25.0	1.2	22.0	4x0.8	21.2	1.20	78	90	
35.0	1.2	23.5	4x0.8	22.5	0.868	99	110	
50.0	1.4	26.0	4x0.8	25.0	0.641	125	135	
70.0	1.4	30.4	4x0.8	28.5	0.443	150	160	
95.0	1.6	33.5	4x0.8	31.0	0.320	185	190	
120.0	1.6	37.0	4x0.8	33.5	0.253	210	210	
150.0	1.8	37.0	4x0.8	37.5	0.206	240	240	
185.0	2.0	40.0	4x0.8	40.5	0.164	275	275	
240.0	2.2	45.0	4x0.8	45.0	0.125	325	320	

L T DISTRIBUTION BOX

SUITABLE FOR 15 No. SINGLE PHASE SERVICE CONNECTIONS



TECHNICAL SPECIFICATIONS



L T DISTRIBUTION BOX
SUITABLE FOR 15 No. SINGLE PHASE SERVICE CONNECTIONS