

VJ's CABLE 1.5 sq. mm MULTICORE UNARMoured (YY) ARMoured (YWY & YFY) CONTROL CABLES

SOLID COPPER CONDUCTOR 650/1100 VOLTAGE GRADE TO IS 1554/PT.1

No. of Cores	Unarmoured approx. overall dia	Armoured approx. overall dia	Max DC C. Resistance at 20°C	AC Current Rating	
	Sq mm	mm		In Air GP PVC Insulation	In Ground GP PVC Insulation
	mm	mm	Ohm/Km	Amps.	Amps.
2	11.40	13.40	12.1	20	23
3	11.80	14.80	12.1	17	21
4	13.00	15.30	12.1	17	21
5	13.80	15.80	12.1	14	17
6	14.20	16.70	12.1	13	15
7	14.20	16.70	12.1	12	14
9	17.50	18.50	12.1	12	14
10	18.40	20.00	12.1	11	13
12	18.50	19.20	12.1	10	12
14	19.20	20.10	12.1	10	11
16	20.30	21.00	12.1	9	11
19	21.80	22.10	12.1	9	10
24	24.90	25.20	12.1	8	9
27	26.10	26.70	12.1	8	9
30	26.50	27.20	12.1	7	9
37	27.50	28.20	12.1	7	8
44	31.40	31.80	12.1	6	7
52	32.10	32.80	12.1	6	7
61	34.20	34.50	12.1	6	7

DIAMOND ELECTRICALS

NOTE:

1. STANDARD DRUMLLENGTH IS 500/1000 MTRS.
2. THE ABOVE CABLES ARE ALSO AVAILAIBLE WITH FRLS PVC SHEATHING

Sole Distributor
(Tamil Nadu & Maharashtra)

DIAMOND ELECTRICALS

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VJ's CABLE 2.5 sq. mm MULTICORE UNARMoured (YY) ARMoured (YWY & YFY) CONTROL CABLES

SOLID COPPER CONDUCTOR 650/1100 VOLTAGE GRADE TO IS 1554/PT.1

DIAMOND ELECTRICALS

No. of Cores	Unarmoured approx. overall dia	Armoured approx. overall dia	Max DC C. Resistance at 20 °C	AC Current Rating	
				In Air GP PVC Insulation	In Ground GP PVC Insulation
Sq mm	mm	mm	Ohm/Km	Amps.	Amps.
2	12.30	15.00	7.41	27	32
3	12.90	15.60	7.41	24	27
4	13.80	16.20	7.41	24	27
5	15.00	17.50	7.41	19	23
6	16.20	19.00	7.41	18	21
7	16.20	19.00	7.41	17	20
9	17.80	19.60	7.41	16	19
10	20.40	22.00	7.41	15	18
12	21.20	22.20	7.41	14	17
14	22.80	23.80	7.41	13	16
16	24.00	24.90	7.41	12	15
19	25.00	26.00	7.41	12	14
24	28.50	30.80	7.41	11	13
27	29.20	31.00	7.41	10	12
30	30.60	31.70	7.41	10	12
37	32.50	33.20	7.41	9	11
44	36.30	37.00	7.41	9	10
52	38.60	40.00	7.41	8	11
61	39.60	41.30	7.41	8	9

NOTE:

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VJ's CABLE 3.5 CORE UNARMoured (AYY) ARMoured (AYFY) POWER CABLES
 ALLUMINIUM CONDUCTOR 650/1100 VOLTAGE GRADE TO IS 1554/PT.1

Nom Cross Section Area	Unarmoured approx. overall dia	Armoured approx. overall dia	Max DC C Resistance at 20°C	AC Current In Air GP PVC Insulation	Rating In Ground GP PVC Insulation
				Amps.	Amps.
Sq mm	mm	Mm	Ohm/Km		
25/16	24.50	25.40	1.200	70	76
35/16	26.80	27.80	0.868	86	92
50/25	30.60	31.50	0.641	105	110
70/35	34.50	35.65	0.443	130	135
95/50	38.60	39.70	0.320	155	165
120/70	42.30	43.10	0.252	180	185

NOTE:

1. STANDARD DRUMLNGTH IS 250/500 MTRS.
2. THE ABOVE CABLE WITH COPPER CONDUCTOR IS ALSO AVAILAIBLE.
3. THE ABOVE CABLES ARE ALSO AVAILAIBLE WITH **FRLS PVC** SHEATHING

VJ's CABLE 3.5 CORE UNARMoured (YY) ARMoured (YFY) POWER CABLES
 COPPER CONDUCTOR 650/1100 VOLTAGE GRADE TO IS 1554/PT.

Nom Cross Section Area	Unarmoured approx. overall dia	Armoured approx. overall dia	Max DC C Resistance at 20°C	AC Current In Air GP PVC Insulation	Rating In Ground GP PVC Insulation
				Amps.	Amps.
Sq mm	mm	mm	Ohm/Km		
25/16	24.5	25.4	0.727	90	99
35/16	26.8	27.8	0.524	110	120
50/25	30.6	31.5	0.365	135	145
70/35	34.5	35.65	0.268	165	175
95/50	38.6	39.7	0.193	200	210
120/70	42.3	43.1	0.153	230	240

NOTE:

1. STANDARD DRUMLNGTH IS 250/500 MTRS.
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VJ's CABLE 2,3,4 CORE UNARMoured (YY) / ARMoured (YWy & YfY) POWER CABLE
Copper Conductor 650/1100 Voltage Grade to IS: 1554/Pt.1

DIAMOND ELECTRICALS

No. Of Cores	Nom Cross Section Area Sq mm	UNARMoured		ARMoured		Max DC C Resistance at 20°C Ohm/Km	AC Current Rating	
		Approx. Overall Dia mm	Approx. Weight Kg/Km	Approx. Overall Dia mm	Approx. Weight Kg/Km		In Air GP PVC Insulation Amps.	In Ground GP PVC Insulation Amps.
2	4	13.8	270	15.9	550	4.61	35	41
2	6	14.9	360	16.9	650	3.08	45	50
2	10	16.4	460	18.5	800	1.83	60	70
2	16	18.7	610	19.4	950	1.15	78	90
3	4	15.2	300	16.6	625	4.61	30	36
3	6	16	400	17.7	735	3.08	39	45
3	10	18.3	550	18.6	800	1.83	52	60
3	16	20.7	830	20.4	1140	1.15	66	77
4	4	15.5	390	18.1	725	4.61	30	36
4	6	16.6	540	19.6	890	3.08	39	45
4	10	18.6	755	20.5	970	1.83	52	60
4	16	21.2	1030	22.5	1370	1.15	66	77

NOTE:

- STANDARD DRUMLLENGTH IS 500/1000 MTRS.
- THE ABOVE CABLES ARE ALSO AVAILAIBLE WITH **FRLS PVC** SHEATHING

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VJ's CABLE 4 CORE UNARMoured (YY) / ARMoured (YWY & YFY) POWER CABLE

ALUMINUM CONDUCTOR 650/1100 VOLTAGE GRADE TO IS: 1554/PT.1

Nom Cross Section Area	Unarmoured approx. overall dia	Armoured approx. overall dia	Max DC C Resistance at 20°C	AC Current Rating	
				In Air GP PVC Insulation	In Ground GP PVC Insulation
Sq mm	mm	mm	Ohm/Km	Amps.	Amps.
1.5	12.00	14.80	18.100	13	16
2.5	13.50	16.40	12.100	18	21
4	15.50	18.10	7.410	23	28
6	16.60	19.60	4.610	30	35
10	18.60	20.50	3.080	40	46
16	21.20	22.50	1.910	51	60
25	25.50	26.50	1.200	70	76
35	28.00	28.50	0.868	86	92
50	32.90	33.50	0.641	105	110
70	35.40	36.50	0.443	130	135
95	41.00	42.30	0.320	155	165
120	44.80	46.90	0.253	180	185

NOTE:

1. STANDARD DRUMLength IS 250/500/1000 MTRS.
2. THE ABOVE CABLES WITH COPPER CONDUCTOR IS ALSO AVAILAIBLE.
3. THE ABOVE CABLES ARE ALSO AVAILAIBLE WITH **FRLS PVC** SHEATHING

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VJ's CABLE FLEXIBLE SINGLE & MULTICORE CABLES

CONFORMING TO IS: 694/90, 1100 VOLTAGE GRADE, ANNEALED PLAIN COPPER CONDUCTOR

	DESCRIPTION Area	UNITS Sq. mm	0.50	0.75	1.00	1.50	2.50	4.00	6.00	10.00	16.00	25.00
			No. & Size of wire Nominal	No./mm	16/0.20	24/0.20	32/0.20	30/0.25 or 48/0.20	50/0.25 or 80/0.2	56/0.30 or 128/0.2	85/0.3	80/0.4
CONDUCTOR	Max Resistance at 20 °C	Ohm/Km	39.000	26.000	19.500	13.300	7.980	4.950	3.300	1.910	1.210	0.780
	Current Rating Dc or Ac	Amp.	4	7	11	14	19	26	32	43	58	75
INSULATION	Thickness Nominal	mm	0.60	0.60	0.60	0.60	0.70	0.80	0.80	1.00	1.20	1.2
SINGLE CORE UNSHEATHED	Overall Dia	mm	2.20	2.45	2.70	3.00	3.65	4.30	5.20	6.60	7.80	9.7
	Weight Approx.	Kg/Km	8.7	11.4	14.3	20.2	31.7	48.5	77.0	124.0	192.0	300
TWIN TWISTED	Overall Dia	mm	5.20	5.60	6.00	6.60	8.00	9.60				
	Weight Approx.	Kg/Km	18	24.5	29.5	41.3	66	100				
SINGLE CORE SHEATHED	Overall Dia	mm	4.00	4.25	4.50	4.80	5.45	6.30				
	Weight Approx.	Kg/Km	21.4	25	29	36.2	50.3	72.5				
2 CORE SHEATHED	Overall Dia	mm	6.50	7.00	7.30	7.80	9.50	11.00				
	Weight Approx.	Kg/Km	54	64	72	88	135	190				
3 CORE SHEATHED	Overall Dia	mm	6.70	7.20	7.50	8.00	9.70	11.20				
	Weight Approx.	Kg/Km	60	73	82	103	157	225				
4 CORE SHEATHED	Overall Dia	mm	7.20	7.80	8.40	9.40	11.00	12.80				
	Weight Approx.	Kg/Km	72	87	104	140	204	295				

VJ'S FLEXIBLE MULTICORE CABLES

1100 Voltage Grade, Annealed Plain Copper Conductor

CORES	AREA SQ. MM.		0.5	0.75	1.0	1.5	2.5	4.00
6	Sheath Thickness (Nom.)	mm	0.9	1.0	1.0	1.1	1.1	1.2
	Overall Dia (Approx.)	mm	9.00	10.00	10.50	11.00	13.50	16.00
7	Sheath Thickness (Nom.)	mm	0.9	1.0	1.0	1.0	1.1	1.2
	Overall Dia (Approx.)	mm	9.00	10.00	10.50	11.00	13.50	16.00
8	Sheath Thickness (Nom.)	mm	1.0	1.0	1.0	1.1	1.2	1.3
	Overall Dia (Approx.)	mm	9.50	10.50	11.00	12.00	14.50	17.00
10	Sheath Thickness (Nom.)	mm	1.0	1.1	1.1	1.1	1.3	1.4
	Overall Dia (Approx.)	mm	10.50	12.00	12.50	13.20	16.50	19.50
12	Sheath Thickness (Nom.)	mm	1.0	1.1	1.1	1.1	1.3	1.4
	Overall Dia (Approx.)	mm	12.00	13.00	13.50	14.00	17.30	20.50
14	Sheath Thickness (Nom.)	mm	1.1	1.1	1.1	1.2	1.3	1.4
	Overall Dia (Approx.)	mm	12.50	14.00	14.50	16.00	19.00	22.50
16	Sheath Thickness (Nom.)	mm	1.1	1.2	1.2	1.2	1.4	1.5
	Overall Dia (Approx.)	mm	13.50	14.50	15.50	17.00	20.50	24.00
19	Sheath Thickness (Nom.)	mm	1.1	1.2	1.3	1.3	1.4	1.5
	Overall Dia (Approx.)	mm	14.50	15.50	17.00	18.00	21.50	25.50

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VJ's SINGLE CORE FLEXIBLE UNSHEATHED CABLES

1100 Voltage Grade, Annealed Plain Copper Conductor

AREA SQ. MM			70.0	95.0	120.0	150.0	185.0	240.0
CONDUCTOR	No. & Size of Wire	Nos./mm	360/0.50	475/0.50	608/0.50	750/0.50	925/0.50	1221/0.50
	Max. Resistance at 20°C	Ohm/Km	0.272	0.206	0.161	0.129	0.106	0.0801
	Current rating DC or AC	Amps.	214	260	305	355	415	500
INSULATION	Thickness(Nom.)	mm	1.4	1.6	1.6	1.8	2.0	2.2
	Overall Dia. (Approx.)	mm	15.30	17.90	19.50	22.00	24.50	28.00

VJ's FLEXIBLE CABLES 3 CORE & 4 CORE

1100 Voltage Grade, Annealed Plain Copper Conductor

AREA SQ. MM			6.0	10.0	16.0	25.0	35.0	50.0	70.0	95.0	120.0	
CONDUCTOR	No. & Size of Wire	Nos./mm	85/0.3	141/0.3 OR 80/0.4	226/0.3 OR 126/0.4	354/0.3 OR 126/0.4	495/0.3 OR 276/0.4	703/0.3 OR 396/0.4	360/0.5	475/0.5	608/0.5	
	Max. Resistance	Ohm/Km	3.30	1.91	1.21	0.78	0.554	0.368	0.272	0.206	0.161	
	Current rating	Amps.	31	42	57	72	91	120	165	200	225	
INSULATION	Thickness	mm	0.8	1.0	1.0	1.2	1.2	1.4	1.4	1.6	1.6	
SHEATH	3 Core	Thickness	mm	1.1	1.2	1.3	1.4	1.5	1.6	2.2	2.4	2.5
		Overall Dia (Approx.)	mm	13.5	16.5	20.0	24.5	27.5	31.5	38.5	45.0	49.0
	4 Core	Thickness	mm	1.2	1.3	1.4	1.6	1.7	1.8	2.2	2.4	2.5
		Overall Dia (Approx.)	mm	14.5	18.0	22.3	27.5	30.5	35.0	40.0	46.5	51.0

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