



# Silica®

**WIRE & CABLES**

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सिलिका सिलिका नवरील व त्रिज्ये SILIKA किरिका SILIKA 0.41 आग्नये धातव पदार्थवशिष्य السليكا



## INTRODUCTION

Hello,

Starting from fledgling organization 25 years ago, SILICA Group of Companies has come a long way in establishing itself as a major player in the cable industry. Since inception SILICA has been setting standards in quality & safety with all its products. The wide product range including LT Power and control cables with PVC insulation, XLPE insulated power cables, Mining cables, Aerial Bunched Cables and Medium Voltage XLPE Insulated cables. All these are made as per the Indian and International Standards laid by various authorities. SILICA is proud to be associated with various utilities, Govt. Undertakings, Consultants and other private organizations.

Not to be satisfied with what it achieved over a span of 25 years, the group ventured into manufacturing and marketing of Electrical products such as Wire & Cables, PVC Conduit Pipe & Accessories, Electrical Accessories, Miniature Circuit Breakers (MCBs), Compact Fluorescent Lamps (CFLs), Switch Gear etc.

SILICA Group is one of the leading manufacturer of Wires & Cables in the country. These Wires are manufactured confirming to all recognised national and international specifications.

SILICA Group is equipped with most modern manufacturing and testing equipments. Each length of Wire is made with the best of materials and skills. So that when you buy SILICA, you buy CONFIDENCE.

(Ajay Kr. Jain)

## EXPORT

TANZANIA SUDAN NIGERIA GHANA ETHIOPIA BANGLADESH KENYA KUWAIT  
YEMEN QATAR CONGO OMAN SRI LANKA U.A.E. MYANMAR



सिलिका मिनीवा नरयटीव त्पुत्तुत्तु SILICA சிலிக்கா SILIKA ᱵᱟᱰᱟᱱ ᱡᱟᱦᱟᱵᱽ ᱠᱟᱢᱟᱝᱠᱟᱢᱟᱣᱟᱲᱟᱢ ᱵᱟᱰᱟᱱ





# Silica®

## WIRE & CABLES

**SILICA** Group is one of the largest Electrical and Power Distribution Equipment Company in the country, manufacturing products ranging from Building Circuit Protection, Industrial & Domestic Switchgear, Wire&Cables, Energy Meters, Fans, Luminaries and Modular Switches.

**SILICA** is today ranked as India's Fastest Growing Electrical Company and dominates the domestic building circuit protection market.

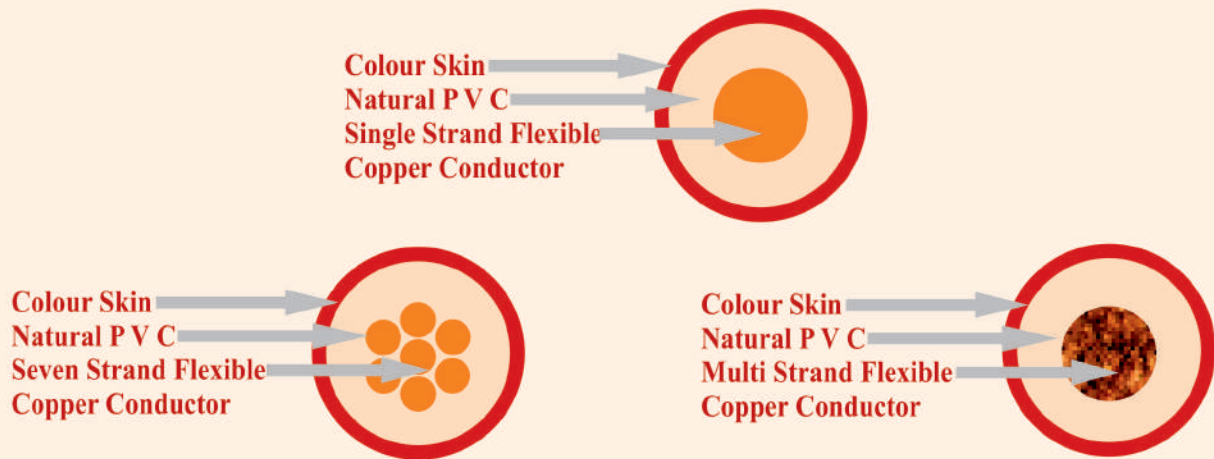
Today, **SILICA** is a name synonymous with excellence and expertise in the electrical industry.

**SILICA** Group has emerged as the preferred choice for a discerning range of individual and industrial consumers both in India and abroad. The essence of its success lies in the expertise of a fine team of professionals, the strong relationship with associates, the ability to change quickly and efficiently and the vision to think ahead.

### The Cable Division

Set up in the year 1991, **SILICA** Cables plant (An ISO 9001:2000 certified unit) is located in Delhi in India. Since inception, **SILICA** has invested heavily in the manufacturing infrastructure, which has today become one of the reputed company in India. All wire & cables are manufactured on most modern laser controlled automatic machines, using best raw material from primary manufacturers ensuring perfect quality.

Innovation is the hallmark of every vital development at **SILICA**. Keeping this philosophy in mind, the company has invested in R&D to make sure that the clients get the advantage of latest technological developments. Through these innovations we have been able to develop special insulating compounds & provide our clients the safest house wiring cables. For us safety of our clients will always be our prime concerns.





## INSULATED FIXED / FLEXIBLE COPPER & WIRES

<b>Application</b>	Installation in surface mounted or embedded conduits or similar closed systems. Indoors, building wires, power cords and domestic electrical wiring purpose.
<b>Standards</b>	As per BS 6004, IEC60227-3, BS6007, BS7919, BS7211, BS6231, BS6141, BS4737, BS6500, <HAR>
<b>Operating Temperature</b>	70° C 90° C
<b>Working Voltage</b>	300/500, 450/750 Volts
<b>Maximum Short Circuit Temperature</b>	160° C
<b>Test Voltage</b>	After immerse in water for 12 hours test voltage applied for 5 minutes Thickness of insulation upto and including 0.7 mm -1.5 KV a.c. 0.7 mm -2.0 KV a.c. 1.0 mm -2.5 KV a.c.
<b>TYPE OF WIRES/CORDS</b>	2491LSF, 6491X, 6491LSF, 6241Y, 6242Y, 6243Y, 6181Y, 6141XY, 6141LSF, 318Y, 309Y, 218Y, 318LSF, 638TQ, 318TRS, 318TQ, 318XY, 380TQ, 680TQ,
<b>Conductor</b>	Solid (Class 1), Stranded (Class 2), flexible (Class 5), annealed copper conductor As per BS 6360 or IEC 60228
<b>Insulation</b>	Poly Vinyl Chloride(PVC), Heat resistant(HR)PVC, Fire Retardant (FR)PVC, Fire Retardant Low Smoke (FRLS)PVC, Zero Halogen(LSOH), Thermosetting(XLPE, Rubber etc.)
<b>Colours</b>	Green, Yellow, Blue, Red, Black, Grey, White, any other colours on request
<b>Sheath(Multicore)</b>	Poly Vinyl Chloride(PVC), Heat resistant (HR)PVC, Fire Retardant(FR)PVC, Fire Retardant Low Smoke (FRLS) PVC, Zero Halogen(LSOH)

FEATURE	HR PVC	FR-PVC	FRLS-PVC	LSOH
Temperature Rating	85° C	70° C	70° C	105° C
Requirement of Oxygen to catch Fire(% in air)	>21	>30	>30	>35
Temperature required to catch Fire Temp (with 21% in oxygen)	Room Temp	>250° C	>250° C	>300° C
Visibility during cable burning(%)	<35	>40	>80	
Release of Halogen Gas during burning (% by weight)	<20	<20	<20	ZERO
Flame Retardancy	Good	Very Good	Very Good	Excellent





## INSULATED FIXED / FLEXIBLE COPPER & WIRES

ISO 9001:2000  
REGISTERED COMPANY

### PVC INSULATED COPPER CONDUCTOR UNSHEATHED WIRES

Nominal Cross Section Area of Conductor	Number/ Nominal Diameter of wires	Thickness of Insulation	Overall Diameter Max.	Current Carrying Capacity	Resistance per Km at 20°C	Insulation Resistance at 70°C
mm <sup>2</sup>	No/mm	mm	mm	Amps	Ohms	M ohm-Km
1.5	1/1.40	1.00	3.80	17.5	12.1	0.011
	7/0.53	1.00	3.90	17.5	12.1	0.010
	30/0.25	1.00	3.10	17.5	13.3	0.010
2.5	1/1.80	1.10	4.70	24.0	7.41	0.010
	7/0.67	1.10	4.80	24.0	7.41	0.009
	50/0.25	1.10	4.90	24.0	7.98	0.009
4	1/2.25	1.20	5.30	32.0	4.61	0.0085
	7/0.85	1.20	5.50	32.0	4.61	0.0077
	56/0.30	1.20	5.70	32.0	4.95	0.0077
6	1/2.76	1.20	6.00	41.0	3.08	0.00701
	7/1.04	1.20	6.20	41.0	3.08	0.0065
	84/0.30	1.20	6.30	41.0	3.30	0.006
10	1/3.57	1.20	7.70	57.0	1.83	0.0070
	7/1.35	1.20	8.00	57.0	1.83	0.0065
	80/0.40	1.20	8.10	57.0	1.91	0.0056
16	7/1.70	1.20	9.35	76.0	1.15	0.0050
	126/0.40	1.20	9.70	76.0	1.21	0.0046
25	7/2.14	1.50	11.60	101.0	0.727	0.0050
	196/0.40	1.50	12.20	101.0	0.780	0.0044
35	7/2.58	1.50	13.10	125.0	0.524	0.0043
	276/0.40	1.50	14.00	125.0	0.524	0.0038
50	19/1.78	1.75	15.30	151.0	0.400	0.0043
	396/0.40	1.75	16.70	151.0	0.400	0.0037
70	19/2.14	1.75	17.50	192.0	0.268	0.0035
	360/0.50	1.75	19.20	192.0	0.272	0.0032
95	19/2.52	2.00	20.50	232.0	0.193	0.0035
	475/0.50	2.00	21.80	232.0	0.206	0.0032
120	37/2.03	2.00	22.50	269.0	0.153	0.0032
	608/0.50	2.00	24.25	269.0	0.161	0.0029
150	37/2.25	2.25	25.10	300.0	0.124	0.0032
	756/0.50	2.25	27.00	300.0	0.129	0.0029
185	37/2.52	2.50	28.00	341.0	0.099	0.0032
	925/0.50	2.50	29.90	341.0	0.106	0.0029
240	61/2.25	2.75	31.90	400.0	0.0754	0.0032
	1221/0.50	2.75	29.00	400.0	0.0801	0.0028

Note:-The Number and Diameter of Conductor Strands are for reference only and governed by conductor resistance.  
For other type of Cords, Wires, ECC, Flat etc the Dimensions, Parameters are available on request.

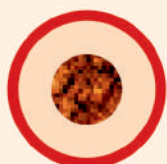
SINGLE  
STRAND



SEVEN  
STRAND



MULTI  
STRAND





## **L.T. PVC INSULATED ARMoured / UNARMoured COPPER / ALUMINIUM CONDUCTOR CABLES**

### **Application**

-Indoors or Outdoors in cable ducts,cable trays,conduits or underground locations under mechanical stresses in power and switching stations.  
-Local distribution systems,Industrial and Commercial units for basic power & Lighting purpose.

### **Standards**

**As per BS 6346,IEC 60502-1 & VDE 0271**

### **Operating Temperature**

70°C

### **Short Circuit Temp.**

160°C

### **Working Voltage**

600/1100 Volts

### **Test Voltage**

3.5 KV r m s for 5 minutes

## **CONSTRUCTION**

### **Conductor**

Aluminium /Annealed plain copper solid\*/stranded conductor  
As per BS 6360 and IEC 60228, Class 2 (Circular/Sector shaped)

### **Insulation**

PVC type Ti1 as per BS 7655:Section 3.1 and PVC type A as per IEC 60502-1

### **Core Colour**

Single core -Red or Black  
2 Core -Red, Black  
3 Core -Red, Yellow, Blue  
4 Core -Red, Yellow, Blue, Black  
5 Core -Red, Yellow, Blue, Black & Yellow-Green  
6 Core & above -Black colour with number printing

### **Assembly**

Insulated conductors are laid up together, if necessary may be filled with fillers

### **Fillers**

Non-hygroscopic Poly propylene fillers are included between laid up cores wherever required. A separator tape of non-hygroscopic poly propylene material is applied over laid up cores wherever necessary

### **Bedding**

Extruded PVC compatible with operating temperature.

### **Armour**

For Single Core-Aluminium round wire/ flat wire. For Multicore-Galvanised Steel round wire / flat wire / tape

### **Outer Sheath**

Extruded PVC special PVC compound such as Flame Retardant(FR),Flame Retardant Low Smoke (FRLS), Low Smoke Zero Halogen (LSOH) can be used for outer sheath to suit a variety of environment and fire risk conditions.Flamability test As per IEC 332 & Swedish chimney. For installation where fire and associated problems such as emission of smoke and toxic fumes offer a serious potential threat, special LSF (Low smoke & fumes) compound can be provided. LSF compound Halogen free (Fluorine,Chlorine, Bromine) when tested As per BS 6425 (Pt 1) &IEC 60754 (Pt 1). The acid gas evolved during combustion is less than 0.5% by weight of material.

**Minimum Bending Radius** 12 times the cable diameter

**Admissible Pulling Force** Aluminium - 30N/mm<sup>2</sup>/copper-50N/mm<sup>2</sup>

**Note:** Unarmoured cable construction details available upon request.

\*Aluminium-upto 10mm<sup>2</sup> Copper-upto 6mm<sup>2</sup>





## L.T. PVC INSULATED ARMoured / UNARMoured COPPER CONDUCTOR CABLES

ARMoured



CABLE CONSTRUCTIONS

SINGLE CORE



UNARMoured

### 1.1 Kv SINGLE CORE COPPER PVC ARMoured & UNARMoured POWER CABLES

Nominal cross sectional area mm <sup>2</sup>	Thickness of PVC insulation mm	ARMOURED						UNARMOURED	
		Nominal Dimentions of Amour mm		Overall Diameter (Approx) mm		Approx. Net Wt. Of cable			
		Strip mm	Wire mm	Strip mm	Wire mm	Strip (Kg/Km)	Wire (Kg/Km)	Overall Diameter (Approx) mm	Net Wt. Of cable (Approx) kg/km
4.0	1.50	.....	1.00	.....	30.9	.....	180	28.6	115
6.0	1.50	.....	1.00	.....	13.7	.....	220	10.9	150
10.0	1.50	.....	1.00	.....	14.7	.....	260	12.1	200
16.0	1.50	.....	1.00	.....	15.7	.....	335	12.9	265
25.0	1.80	.....	1.00	.....	17.7	.....	450	14.9	365
35.0	1.80	.....	1.00	.....	18.8	.....	560	16.1	475
50.0	2.00	.....	1.40	.....	20.6	.....	730	17.9	625
70.0	2.00	.....	1.40	.....	23.0	.....	980	19.8	850
95.0	2.30	4X0.8	1.40	25.00	26.0	1225	1300	22.3	1080
120.0	2.30	4X0.8	1.40	27.60	28.5	1500	1550	25.3	1330
150.0	2.50	4X0.8	1.60	28.80	29.8	1825	1870	26.6	1700
185.0	2.80	4X0.8	1.60	32.40	32.5	2200	2240	29.4	2060
240.0	3.00	4X0.8	1.60	36.00	36.2	2800	2860	32.8	2610
300.0	3.30	4X0.8	1.60	38.4	40.4	3450	3550	35.8	3260
400.0	3.60	4X0.8	2.00	44.4	44.5	4400	4575	40.3	4160
500.0	4.00	4X0.8	2.00	48.00	49.4	5500	5725	44.9	5250
630.0	4.70	4X0.8	2.00	56.40	55.4	7000	7175	50.6	6675
800.0	4.70	4X0.8	2.50	58.80	62.4	8650	9000	57.6	8325
1000.0	4.80	4X0.8	2.50	66.00	68.8	10650	11175	62.6	10400







## L.T. PVC INSULATED ARMoured / UNARMoured COPPER CONDUCTOR CABLES

ARMoured



CABLE CONSTRUCTIONS

THREE CORE



UNARMoured

### 1.1 Kv THREE CORE COPPER PVC ARMoured & UNARMoured POWER CABLES

Nominal cross sectional area mm <sup>2</sup>	Thickness of PVC insulation mm	Thickness of PVC inner sheath mm	ARMOURED						UNARMOURED	
			Nominal Dimentions of Amour mm		Overall Diameter (Approx) mm		Approx. Net Wt. Of cable			
			Strip mm	Wire mm	Strip mm	Wire mm	Strip (Kg/Km)	Wire (Kg/Km)	Overall Diameter (Approx) mm	Net Wt. Of cable (Approx) kg/km
1.5	1.00	1.00	.....	1.00	.....	16.80	.....	450	13.20	225
2.5	1.20	1.00	.....	1.00	.....	18.00	.....	550	14.40	300
4.0	1.20	1.50	.....	1.00	.....	19.80	.....	650	16.20	375
6.0	1.20	1.50	.....	1.00	.....	21.00	.....	800	17.30	500
10.0	1.20	1.50	4X0.8	1.00	22.32	23.40	.....	1025	18.70	650
16.0	1.20	2.00	4X0.8	1.40	25.56	24.24	975	1175	22.00	725
25.0	1.50	2.00	4X0.8	1.40	27.72	27.48	1325	1575	25.80	1075
35.0	1.50	2.00	4X0.8	1.40	31.92	29.64	1650	1950	28.00	1375
50.0	1.70	2.50	4X0.8	1.40	35.52	33.84	2175	2450	31.80	1800
70.0	1.70	2.50	4X0.8	1.60	40.20	38.40	2850	3375	35.90	2475
95.0	2.00	3.00	4X0.8	1.60	44.40	43.44	3700	4350	40.60	3300
120.0	2.00	3.00	4X0.8	1.60	48.12	47.28	4550	5175	44.40	4025
150.0	2.20	3.50	4X0.8	1.60	53.04	50.88	5500	6200	48.10	4950
185.0	2.50	4.00	4X0.8	2.00	61.56	57.48	6700	7875	53.50	6200
240.0	2.70	4.50	4X0.8	2.00	66.00	64.44	8600	10000	60.80	8000
300.0	3.00	5.00	4X0.8	2.00	75.12	70.08	10600	12100	66.60	9900
400.0	3.20	5.00	4X0.8	2.50	101.64	81.12	13300	15700	76.50	12500



## L.T. PVC INSULATED ARMoured / UNARMoured COPPER CONDUCTOR CABLES

ARMoured



CABLE CONSTRUCTIONS

3.5 CORE



UNARMoured

### 1.1 Kv 3.5 CORE COPPER PVC ARMoured & UNARMoured POWER CABLES

Nominal cross sectional area mm²	Thickness of PVC insulation mm	Thickness of PVC inner sheath mm	ARMOURED						UNARMOURED	
			Nominal Dimintions of Amour mm		Overall Diameter (Approx) mm		Approx. Net Wt. Of cable			
			Strip mm	Wire mm	Strip mm	Wire mm	Strip (Kg/Km)	Wire (Kg/Km)	Overall Diameter (Approx) mm	Net Wt. Of cable (Approx) kg/km
25/16	1.5/1.2	2.00	4X0.8	1.40	28.56	30.48	1550	1800	28.80	1275
35/16	1.5/1.2	2.00	4X0.8	1.40	29.76	31.68	1900	2200	30.00	1600
50/25	1.7/1.5	2.50	4X0.8	1.40	34.08	36.00	2500	2800	33.96	2100
70/35	1.7/1.5	2.50	4X0.8	1.60	39.00	41.88	3250	3850	39.36	2875
95/50	2.0/1.7	3.00	4X0.8	1.60	43.44	46.68	4300	5000	37.80	3800
120/70	2.0/1.7	3.00	4X0.8	1.60	47.16	50.52	5300	6100	47.64	4800
150/70	2.2/1.7	3.50	4X0.8	1.60	52.80	55.68	6300	7100	52.80	5700
185/95	2.5/2.0	4.00	4X0.8	2.00	58.56	63.36	7800	9100	58.68	7150
240/120	2.5/2.0	4.50	4X0.8	2.00	66.24	70.68	9900	11500	67.20	9300
300/150	3.0/2.0	5.00	4X0.8	2.50	71.64	77.64	12200	14600	72.72	11500
400/185	3.2/2.5	5.00	4X0.8	2.50	82.32	87.96	15300	18000	83.28	14600





## L.T. PVC INSULATED ARMoured / UNARMoured COPPER CONDUCTOR CABLES

ARMoured



CABLE CONSTRUCTIONS  
FOUR CORE



UNARMoured

### 1.1. Kv FOUR CORE COPPER PVC ARMoured & UNARMoured POWER CABLES

Nominal cross sectional area mm <sup>2</sup>	Thickness of PVC insulation mm	Thickness of PVC inner sheath mm	ARMOURED						UNARMOURED	
			Nominal Dimentions of Amour mm		Overall Diameter (Approx) mm		Approx. Net Wt. Of cable			
			Strip mm	Wire mm	Strip mm	Wire mm	Strip (Kg/Km)	Wire (Kg/Km)	Overall Diameter (Approx) mm	Net Wt. Of cable (Approx) kg/km
1.5	1.00	1.00	.....	1.00	.....	17.4	.....	510	14.0	250
2.5	1.20	1.00	.....	1.00	.....	19.2	.....	625	15.8	340
4.0	1.20	1.50	.....	1.00	.....	21.0	.....	750	18.0	420
6.0	1.20	1.50	.....	1.00	.....	22.8	.....	975	19.2	600
10.0	1.20	1.50	4X0.8	1.40	25.8	27.6	1050	1275	22.8	800
16.0	1.20	2.00	4X0.8	1.40	26.6	28.6	1225	1425	26.9	950
25.0	1.50	2.00	4X0.8	1.40	28.3	30.2	1675	1950	28.6	1375
35.0	1.50	2.00	4X0.8	1.40	31.1	33.4	2125	2450	31.3	1775
50.0	1.70	2.50	4X0.8	1.60	36.4	39.2	2750	3300	36.7	2375
70.0	1.70	2.50	4X0.8	1.60	40.1	43.0	3625	4275	40.4	3200
95.0	2.00	3.00	4X0.8	1.60	45.8	48.7	4825	5530	46.3	4325
120.0	2.00	3.00	4X0.8	1.60	50.0	52.9	5900	6675	50.0	5300
150.0	2.25	3.50	4X0.8	2.00	53.6	58.1	7100	8375	54.1	6500
185.0	2.50	4.00	4X0.8	2.00	60.0	64.6	8750	10200	61.0	8100
240.0	2.70	4.50	4X0.8	2.00	68.0	72.1	11250	12900	68.6	10500
300.0	3.00	5.00	4X0.8	2.50	75.5	81.6	13900	16500	76.9	13200
400.0	3.20	5.00	4X0.8	2.50	84.7	90.4	17500	20300	85.8	16600



## L.T. PVC INSULATED ARMoured / UNARMoured ALUMINIUM CONDUCTOR CABLES

ARMoured



CABLE CONSTRUCTIONS

SINGLE CORE



UNARMoured

### 1.1 Kv SINGLE CORE ALUMINIUM PVC ARMoured & UNARMoured POWER CABLES

Nominal cross sectional area mm <sup>2</sup>	Thickness of PVC insulation mm	ARMOURED						UNARMOURED	
		Nominal Dimentions of Amour mm		Overall Diameter (Approx) mm		Approx. Net Wt. Of cable			
		Strip mm	Wire mm	Strip mm	Wire mm	Strip (Kg/Km)	Wire (Kg/Km)	Overall Diameter (Approx) mm	Net Wt. Of cable (Approx) kg/km
4.0	1.50	.....	1.00	.....	30.9	.....	150	28.6	90
6.0	1.50	.....	1.00	.....	13.7	.....	175	10.9	115
10.0	1.50	.....	1.00	.....	14.7	.....	210	12.1	135
16.0	1.50	.....	1.00	.....	15.7	.....	250	12.9	165
25.0	1.80	.....	1.00	.....	17.7	.....	310	14.9	225
35.0	1.80	.....	1.00	.....	18.8	.....	350	16.1	275
50.0	2.00	.....	1.40	.....	20.6	.....	425	17.9	350
70.0	2.00	.....	1.40	.....	23.0	.....	550	19.8	425
95.0	2.30	4X0.8	1.40	25.00	26.0	650	700	22.3	550
120.0	2.30	4X0.8	1.40	27.60	28.5	760	800	25.3	650
150.0	2.50	4X0.8	1.60	28.80	29.8	875	950	26.6	775
185.0	2.80	4X0.8	1.60	32.40	32.5	1050	1100	29.4	925
240.0	3.00	4X0.8	1.60	36.00	36.2	1300	1400	32.8	1175
300.0	3.30	4X0.8	1.60	38.4	40.4	1575	1650	35.8	1400
400.0	3.60	4X0.8	2.00	44.4	44.5	1925	2100	40.3	1775
500.0	4.00	4X0.8	2.00	48.00	49.4	1375	2610	44.9	2225
630.0	4.70	4X0.8	2.00	56.40	55.4	3025	3275	50.6	2850
800.0	4.70	4X0.8	2.50	58.80	62.4	3700	4100	57.6	3450
1000.0	4.80	4X0.8	2.50	66.00	68.8	4450	4850	62.6	4200





## L.T. PVC INSULATED ARMoured / UNARMoured ALUMINIUM CONDUCTOR CABLES

ARMoured



CABLE CONSTRUCTIONS

TWO CORE



UNARMoured

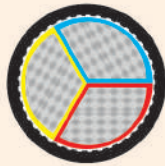
### 1.1 Kv TWO CORE ALUMINIUM PVC ARMoured & UNARMoured POWER CABLES

Nominal cross sectional area mm <sup>2</sup>	Thickness of PVC insulation mm	Thickness of PVC inner sheath mm	ARMOURED						UNARMOURED	
			Nominal Dimentions of Amour mm		Overall Diameter (Approx) mm		Approx. Net Wt. Of cable			
			Strip mm	Wire mm	Strip mm	Wire mm	Strip (Kg/Km)	Wire (Kg/Km)	Overall Diameter (Approx) mm	Net Wt. Of cable (Approx) kg/km
1.5	1.00	1.00	.....	1.00	.....	16.20	.....	390	12.5	170
2.5	1.10	1.00	.....	1.00	.....	18.00	.....	450	14.3	210
4.0	1.20	1.50	.....	1.00	.....	19.80	.....	520	16.1	260
6.0	1.20	1.50	.....	1.00	.....	21.00	.....	650	17.3	325
10.0	1.20	1.50	.....	1.00	.....	22.80	.....	750	19.1	340
16.0	1.20	2.00	4X0.8	1.40	22.56	24.48	600	800	21.6	400
25.0	1.50	2.00	4X0.8	1.40	24.96	26.88	725	900	24.5	475
35.0	1.50	2.00	4X0.8	1.40	26.16	28.08	825	1050	25.7	575
50.0	1.70	2.50	4X0.8	1.40	29.16	31.44	1000	1275	28.7	700
70.0	1.70	2.50	4X0.8	1.40	32.04	33.96	1200	1500	31.2	875
95.0	2.00	3.00	4X0.8	1.60	36.24	39.12	1500	2050	35.9	1150
120.0	2.00	3.00	4X0.8	1.60	38.04	41.28	1750	2350	37.7	1325
150.0	2.20	3.50	4X0.8	1.60	42.48	45.36	2050	2675	42.2	1600
185.0	2.40	4.00	4X0.8	1.60	47.28	49.80	2475	3125	46.2	1925
240.0	2.70	4.50	4X0.8	2.00	51.00	55.08	3025	4175	50.4	2425
300.0	2.90	5.00	4X0.8	2.00	57.60	62.28	3650	4875	54.1	2975
400.0	3.20	5.00	4X0.8	2.50	66.60	72.60	4500	6500	63.0	3775



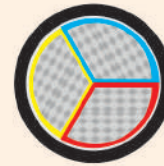
## L.T. PVC INSULATED ARMoured / UNARMoured ALUMINIUM CONDUCTOR CABLES

ARMoured



CABLE CONSTRUCTIONS

THREE CORE



UNARMoured

### 1.1 Kv THREE CORE ALUMINIUM PVC ARMoured & UNARMoured POWER CABLES

Nominal cross sectional area mm²	Thickness of PVC insulation mm	Thickness of PVC inner sheath mm	ARMOURED						UNARMOURED	
			Nominal Dimentions of Amour mm		Overall Diameter (Approx) mm		Approx. Net Wt. Of cable			
			Strip mm	Wire mm	Strip mm	Wire mm	Strip (Kg/Km)	Wire (Kg/Km)	Overall Diameter (Approx) mm	Net Wt. Of cable (Approx) kg/km
1.5	1.00	1.00	.....	1.00	.....	16.80	.....	420	13.20	180
2.5	1.20	1.00	.....	1.00	.....	18.00	.....	500	14.40	220
4.0	1.20	1.50	.....	1.00	.....	19.80	.....	590	16.20	250
6.0	1.20	1.50	.....	1.00	.....	21.00	.....	690	17.30	350
10.0	1.20	1.50	4X0.8	1.00	22.32	23.40	.....	850	18.70	450
16.0	1.20	2.00	4X0.8	1.40	25.56	24.24	690	925	22.00	500
25.0	1.50	2.00	4X0.8	1.40	27.72	27.48	880	1125	25.80	610
35.0	1.50	2.00	4X0.8	1.40	31.92	29.64	1025	1325	28.00	750
50.0	1.75	2.50	4X0.8	1.40	35.52	33.84	1275	1500	31.80	925
70.0	1.75	2.50	4X0.8	1.60	40.20	38.40	1600	2100	35.90	1225
95.0	2.00	3.00	4X0.8	1.60	44.40	43.44	2025	2500	40.60	1575
120.0	2.00	3.00	4X0.8	1.60	48.12	47.28	2425	2800	44.40	1850
150.0	2.25	3.50	4X0.8	1.60	53.04	50.88	2850	3300	48.10	2250
185.0	2.50	4.00	4X0.8	2.00	61.56	57.48	3425	4300	53.50	2750
240.0	2.75	4.50	4X0.8	2.00	66.00	64.44	4350	5250	60.80	3500
300.0	3.00	5.00	4X0.8	2.00	75.12	70.08	5275	6200	66.60	4275
400.0	3.25	5.00	4X0.8	2.50	101.64	81.12	6200	8200	76.50	5500





## L.T. PVC INSULATED ARMoured / UNARMoured ALUMINIUM CONDUCTOR CABLES

ARMoured



CABLE CONSTRUCTIONS

3.5 CORE



UNARMoured

### 1.1 Kv 3.5 CORE ALUMINIUM PVC ARMoured & UNARMoured POWER CABLES

Nominal cross sectional area mm <sup>2</sup>	Thickness of PVC insulation mm	Thickness of PVC inner sheath mm	ARMOURED						UNARMOURED	
			Nominal Dimentions of Amour mm		Overall Diameter (Approx) mm		Approx. Net Wt. Of cable			
			Strip mm	Wire mm	Strip mm	Wire mm	Strip (Kg/Km)	Wire (Kg/Km)	Overall Diameter (Approx) mm	Net Wt. Of cable (Approx) kg/km
25/16	1.5/1.2	2.00	4X0.8	1.40	28.56	30.48	1000	1250	28.80	725
35/16	1.5/1.2	2.00	4X0.8	1.40	29.76	31.68	1150	1500	30.00	825
50/25	1.7/1.5	2.50	4X0.8	1.40	34.08	36.00	1450	1700	33.96	1050
70/35	1.7/1.5	2.50	4X0.8	1.60	39.00	41.88	1800	2300	39.36	1400
95/50	2.0/1.7	3.00	4X0.8	1.60	43.44	46.68	2300	2925	37.80	1800
120/70	2.0/1.7	3.00	4X0.8	1.60	47.16	50.52	2750	3400	47.64	2200
150/70	2.2/1.7	3.50	4X0.8	1.60	52.80	55.68	3025	3850	52.80	2600
185/95	2.5/2.0	4.00	4X0.8	2.00	58.56	63.36	3900	5150	58.68	3225
240/120	2.5/2.0	4.50	4X0.8	2.00	66.24	70.68	4900	6300	67.20	4200
300/150	3.0/2.0	5.00	4X0.8	2.50	71.64	77.64	5800	8000	72.72	5170
400/185	3.2/2.5	5.00	4X0.8	2.50	82.32	87.96	7100	9600	83.28	6300





