

# LYNN WIRES & CABLES



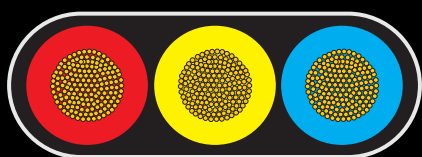
AN ISO 9001 : 2015 CERTIFIED COMPANY



## LIFE TO YOUR PUMPING MACHINE

### 3 CORE SUBMERSIBLE FLAT CABLE

(PVC/Rubber, Flat/Round 3/4 Core)



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# LYNN SUBMERSIBLE CABLE

## Description

LYNN submersible cables are produced in a well equipped manufacturing plant using high thermal stability, bright electrolytic copper of 99.95% purity with low conductor resistance for high current carrying capacity with superior grade rubber & PVC compounds. Outer sheath is made up of special grade water proof PVC / Rubber compound resistant to moisture, abrasion, grease, oil and other environment effect. LYNN produces different types of submersible cables in a wide range to meet the different needs of customers across the world. LYNN supplies cables in both SWG and AWG dimensions. These cables are produced keeping vagaries of field conditions voltage fluctuations into account to ensure reliability, safety, longevity and energy saving.

## Specification

Conductor: EC flexible copper generally conforms to IS 8130, IEC 60228 & DIN VDE 0295

Insulation: PVC insulation compound TI-1 (As per IS:5831 Type A : A Red, Yellow, Blue, Green / Black)

PVC insulation compound TI-1 (As per IEC 60227 : Black, Blue, Brown, Green / Yellow)

Sheath: Special PVC : Black, Blue (As per IS:5831 Type ST-1)

## Salient Features :-

- 99.95% pure electrolytic cathod grade copper
- High conductivity, 100% Annealed & Bunched Copper
- Low Di-electric losses, Higher current rating & Longer service life
- High ageing property of PVC insulation and Sheath.
- Non-Hygroscopic : protection against ingress of water.

Conductor Size (Sqmm)	Item Code	Conductor Construct (No/mm)	Conductor Resistance (At 20°C ohm/km)	Overall Dimension (mm approx)		Current Carrying Capacity (At 40°C in Amp)	Insulation Thickness (mm)	Sheaths Thickness (mm)
				Width	Thickness			
1.5	L1-43	22/0.3	12.10	12.0	5.6	14	0.6	0.9
2.5	L1-64	36.03	7.41	13.0	6.2	18	0.7	1.0
4.00	L1-96	56/0.3	4.95	15.3	7.1	26	0.8	1.0
6.00	L1-144	84/0.3	3.30	19.2	8.4	31	0.8	1.1
10.00	L1-237	140/0.3	1.91	24.2	10.4	42	1.0	1.4
16.00	L1-371	224/0.3	1.21	29.0	12.4	57	1.0	1.4
25.00	L1-583	350/0.3	0.78	36.5	15.7	75	1.2	2.0
35.00	L1-794	490/0.3	0.55	40.5	17.2	90	1.2	2.0

\* The Number of wires and its diameter in the conductor is such as to satisfied requirements of the conductor resistance as per IS 8130 : 1984 current carrying capacity (Amps)

\* In view of continuous improvements in our designs and process, specifications given here in subject to change without notice.

## **Applications:**

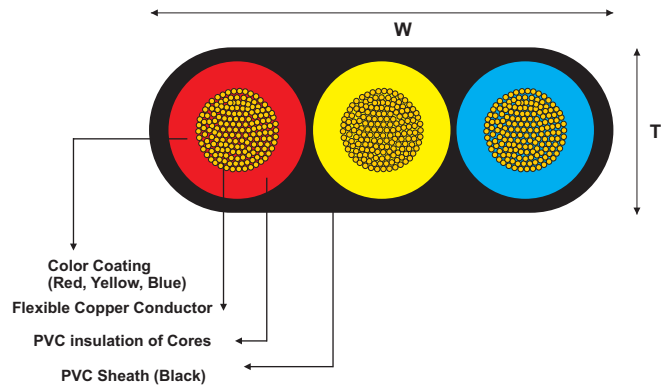
- ▶ To connecting power supply for submersible pump in depth of 500 meter and water temperature up to 70°C
- ▶ To be used for outer installations in dry, moist and wet environments but however not suitable for explosive areas

## **Standards:**

- ▶ IS : 694/2010 and IEC 60227

## **Electrical Properties:**

- ▶ Rated voltage : 1.1 kV
- ▶ Test Voltage : 3.0 kV



## **Thermal Properties:**

- ▶ Ambient Temperature : -20°C to + 80°C
- ▶ Maximum temperature at conductor : 70°C
- ▶ Short circuit temperature : 70°C (at conductor max. 5 sec.)

## **Mechanical Properties:**

- ▶ Maximum bending radius : 6 x od
- ▶ Tensile strength : 6.5-12.5 N/mm<sup>2</sup> for insulation and 8-12.5 N/mm<sup>2</sup> for sheathing

## **CABLE SELECTION CHART FOR 220V - SINGLE PHASE - 50 Hz**

H.P.	CABLE LENGTH IN METERS														
	10	20	30	40	50	60	70	80	90	100	120	140	160	180	200
	CABLE SIZE IN SQ.MM														
0.50	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	4.0	4.0
1.00	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0
1.50	1.5	1.5	1.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	10.0	10.0	10.0	10.0
2.00	1.5	1.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	6.0	10.0	10.0	10.0	16.0	16.0
3.00	1.5	1.5	2.5	2.5	4.0	4.0	6.0	6.0	6.0	10.0	10.0	10.0	16.0	16.0	16.0
4.00	1.5	2.5	2.5	4.0	4.0	6.0	6.0	10.0	10.0	10.0	16.0	16.0	16.0	16.0	16.0
5.00	2.5	2.5	4.0	4.0	6.0	6.0	10.0	10.0	10.0	10.0	16.0	16.0	16.0	25.0	25.0

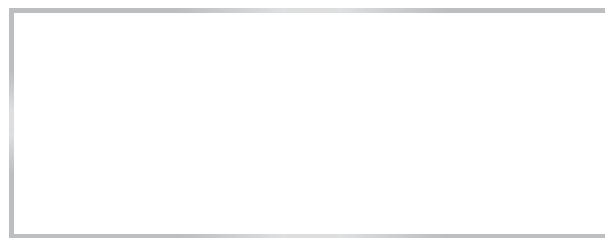
\*Calculated Length = (220/Actual Voltage) X Actual Length

## CABLE SELECTION CHART FOR 415V - THREE PHASE - 50 Hz

H.P.	CABLE LENGTH IN METERS													
	10	20	30	40	50	60	70	80	90	100	120	140	180	200
	CABLE SIZE IN SQ.MM													
1.50	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
2.00	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5
3.00	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	4.0
5.00	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	4.0	4.0
7.50S	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.0	4.0	4.0	4.0	6.0	6.0
10.00	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	2.5	4.0	4.0	6.0
12.50	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.0	4.0	4.0	4.0	6.0	6.0
15.00	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.0	4.0	4.0	4.0	6.0	6.0	10.0
17.50	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	6.0	6.0	10.0
20.00	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	6.0	6.0	10.0	10.0
25.00	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	6.0	6.0	10.0	10.0
30.00	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	10.0	10.0	10.0
40.00	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	16.0	16.0
50.00	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	25.0
60.00	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
70.00	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0

\*Calculated Length = (415/Actual Voltage) X Actual Length

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