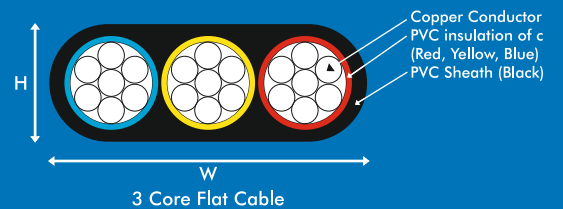
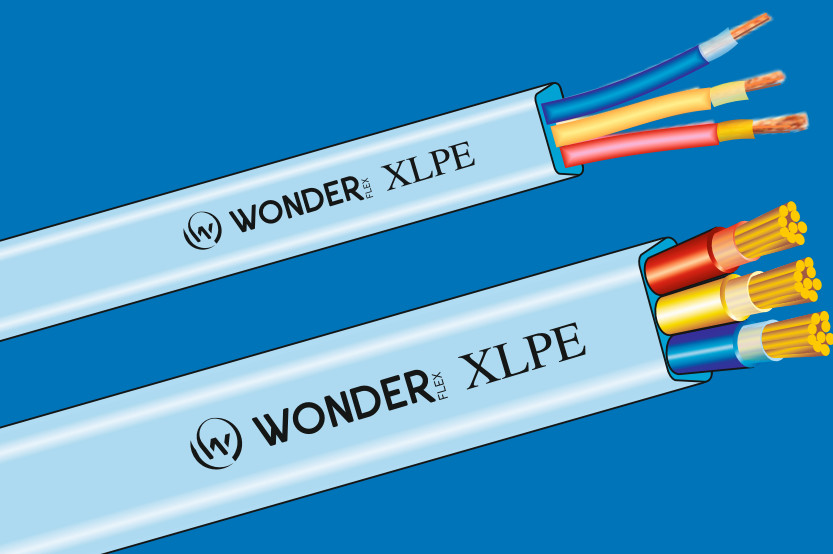


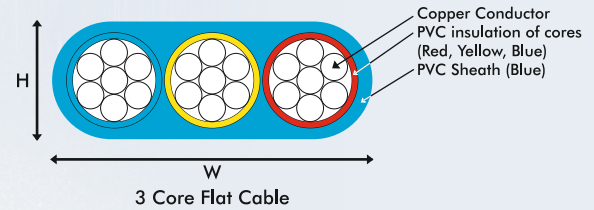


# WONDER<sup>FLEX</sup> WIRES & CABLES



# 3 Core Flat XLPE Cables

For Submersible Pump Motors



Submersible Cable is specialized product to used for submersible pumps in deep well. The area of installation is physically restrictive environment is very hostile. The conductor is further insulated with thermoset type Cross Linked Polythene (XLPE) insulation with uniform thickness. The sheath with uniform thickness of Head and Moisture Resistant type PVC (Grade ST2) compound formulated and manufactured in house, is extruded over these coloured cores in a flat formation. The colour of the sheath is black. The cable undergo stringent quality checks during raw materials, in process and final testing as per the laid down specification and the quality norms. The cables are available progressive marking, company name, size & voltage printed on sheath.

## PRODUCT CONSTRUCTION :

- STANDARD : Generally as per IS : 7098 (Part 1) : 2010
- WORKING VOLTAGE : Up to 1100 V.AC 50 Hz.
- TEMPERATURE RANGE : -15°C to +90°C
- RANGE : 1.50 Sq. mm to 50 Sq. mm.
- CONDUCTOR : Annealed electrolytic grade bare copper (as per IS 8130:2010)
- INSULATION : Cross linked Polyethylene (XLPE)
- SHETH : Heat Resistant PVC Type St2 (as per IS:5831:2010)
- KEY APPLICATION : The XLPE insulated and PVC sheathed 3 core flat cables are used for giving electrical connection of the submersible pump motors. These are manufactured keeping in mind the severe, tough and difficult condition in which they have to operate. The slot available in the tube well being narrow the shape of the cables has to be suited for such an application. These cables are available in different sizes.
- PACKGING : Supplier in 300 mtrs., 500 mtrs & 1000 mtrs. (±5%) packing un Jute bags & Non returnable Wooden drums on request and Longer length available on request.
- MARKIN : The Cables are printed with generic marking “WONDERFLEX 3 CORE FLAT CABLES”

TEMP RANGE  
-15°C to 70°C

TEST VOLTAGE  
3000 Volts

100% ANNEALING

LONGER SERVICE LIFE

MORE THAN 100% CONDUCTIVITY

### 3 CORE FLAT CABLES WITH COPPER CONDUCTOR XLPE INSULATION AND HR PVC SHEATH

Sr.No.	PARAMETERS	Size (Sq. mm)							
		2.5	4.0	6.0	10.0	16.0	25.0	35.0	50.0
1.	Conductor construction (No/mm)	36/0.3	56/0.3	84/0.3	140/0.3	226/0.3	354/0.3	495/0.3	703/0.3
2.	Conductor Resistance at 20°C (ohms/km) Max	7.41	4.95	3.3	1.91	1.21	0.780	0.554	0.380
3.	Insulation Thickness (mm) Nom	0.7	0.7	0.7	0.7	0.7	0.9	0.9	1.1
4.	Sheath Thickness (mm) Nom	1.0	1.0	1.1	1.2	1.3	1.5	1.6	1.7
5.	Overall Dimension Width (W)	12.7	14.9	16.9	20.3	23.8	29.6	33.6	41.20
	(mm) approx. Height (H)	6.0	6.6	7.4	9.1	10.4	12.9	14.4	17.2

The number of wires and its diameter in the conductor will be such as to satisfy requirement of the conductor resistance as per IS 8130:2010 Current Carrying Capacity (Amps)

Sr.No.	PARAMETERS	Size (Sq. mm)							
		2.5	4.0	6.0	10.0	16.0	25.0	35.0	50.0
1.	PVC Insulation	18	26	31	42	57	72	90	138
2.	XLPE Insulation	30	37	46	66	85	113	139	160
	Ambient Temperature (Deg. C)	25	30	35	40	45	50	55	60
	Factor	1.18	1.12	1.06	1.00	0.94	0.88	0.82	0.76