

# SUBMERSIBLE CABLE

## Insulation

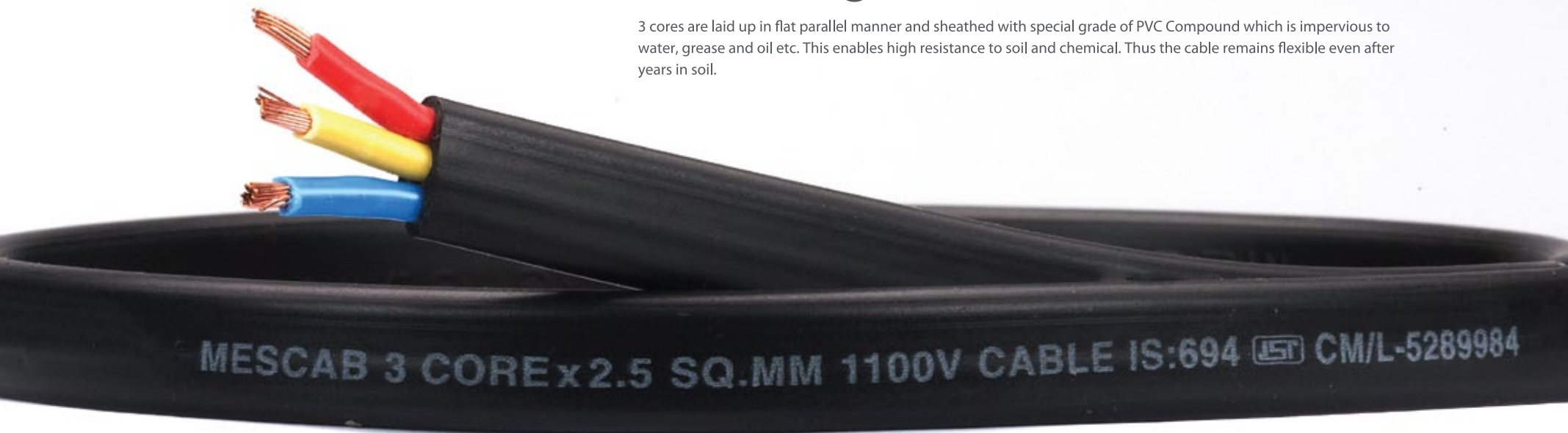
The bunched conductors are insulated with special grade of PVC Compound having high insulation resistance values. This provides better ageing properties, higher operating temperature and enhances insulation characteristics. Our cables are more durable, best performing and resistant to moisture, grease and abrasion along with excellent mechanical & electrical properties.

## Conductor

The conductors are drawn from 99.97% pure bright electrolytic grade annealed copper and bunched together which gives flexibility, high purity and conductivity ensuring higher current rating and uniform resistance. Thus helps in saving energy.

## Sheathing

3 cores are laid up in flat parallel manner and sheathed with special grade of PVC Compound which is impervious to water, grease and oil etc. This enables high resistance to soil and chemical. Thus the cable remains flexible even after years in soil.



PVC Insulated and PVC sheathed cable with electrolytic grade annealed copper conductor having 3 core flat for Submersible Pump Motors voltage up to and including 1100V conforming / generally conforming to IS : 694 : 1990

Conductor		Insulation Thickness (Nom.) mm	Sheath Overall Dimensions		Conductor Resistance @ 20°C (Max.) Ohms/km	Current Carrying Capacity @ 40°C Amps.
Area (Nom.) Sq.mm	No/dia. of strands mm		Thickness (Nom.) mm	Size (Approx.) (W×T) mm		
1.0	32/0.2	0.6	0.9	10.0 × 4.5	19.50	12
1.5	22/0.3	0.6	0.9	11.0 × 5.0	12.10	16
2.5	36/0.3	0.7	1.0	13.0 × 6.0	7.41	22
4.0	56/0.3	0.8	1.0	15.3 × 6.7	4.95	29

Conductor		Insulation Thickness (Nom.) mm	Sheath Overall Dimensions		Conductor Resistance @ 20°C (Max.) Ohms/km	Current Carrying Capacity @ 40°C Amps.
Area (Nom.) Sq.mm	No/dia. of strands mm		Thickness (Nom.) mm	Size (Approx.) (W×T) mm		
6.0	84/0.3	0.8	1.15	18.6 × 8.0	3.30	37
10.0	80/0.4	1.0	1.4	21.0 × 9.5	1.91	46
16.0	126/0.4	1.0	1.4	24.5 × 10.7	1.21	62
25.0	196/0.4	1.2	2.0	30.6 × 13.5	0.780	80
35.0	276/0.4	1.2	2.0	34.4 × 14.7	0.554	102
50.0	396/0.4	1.4	2.2	41.2 × 17.2	0.386	138
70.0	360/0.5	1.4	2.2	46.6 × 19.0	0.272	214

Selection Guide for 3 Core Flat Cables

1. HPVs Current

The full load current for submersible pump motors, 3 phase, 50 cycles, 415-425 V.

HP	5.0	7.5	10.0	12.5	15.5	17.5	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0
Amp	7.5	11.0	14.9	18.9	22.5	25.2	28.4	35.6	42.3	50.4	58.1	62.1	67.5	73.8	81.0	87.3	93.6	100.8	108.0

Colour of Sheath: Black

Colours of Cores : Red, Yellow & Blue

Marking : The cables are printed with brand name, size in sqmm & voltage grade on sheath.

Application:

To supply power to submersible pump motors in a deep bore well for:

- Irrigations • Drinking Water Supply • Mine Dewatering • Industries • Swimming Pools • Fountains
- Offshore Drilling Rigs • Aquariums • Sewage Treatment Plants • Sea / River Water Filtration Plants