

NEOCAB™

Wires & Cable

3 CORE FLAT CABLE FOR SUBMERSIBLE PUMP




SUBMERSIBLE PUMP CABLES

IS:694-90

CM/L-7987820


Moisture & Dirt
Resistant


Scratch
Resistant


Oil
Resistant

R&B
APPROVED

R. S. INDUSTRIES
Anand-388 001, Gujarat (India).

3 CORE FLAT CABLE FOR SUBMERSIBLE PUMP

PVC Insulated & Sheathed Copper Conductor 3 Core Flat Cables in Voltage Grade up to and including 1100V & Generally conforming to IS 694:1990.

NEOCAB is the leading manufacturer and exporter of submersible flat cables. NEOCAB is one of the fastest growing companies of wire industry. Our highly educated engineers use only high quality raw materials to make these cables.

3 core flat submersible cables often finds application for submersible pumps in deep well and come with standard features like excellent resistance to moisture, abrasion, mechanical and electrical resistance as well as from grease and oil.

Further, the copper used in submersible pump cables are, drawn, on-line annealed as well as bunched on automatic machines with conductors that come insulated with special grade PVC compound on dual extrusion line so as to successfully meet insulation requirements of submersible pumps. The cores are also laid flat and are sheathed with abrasion resistance PVC compound that make these provide protection while in immersed position from water

TECHNICAL DATA

3 Core Flat Cables as per IS 694:1990 with ISI mark

Conductor		Insulation	Sheath	Overall Dimensions		Conductor Resistance @ 20°C (max) ohms/km.	Current Carrying Capacity @ 40°C Amps
Area sq.mm.	No./Dia. of Strands mm	Thickness (Nom) mm	Thickness (Nom) mm	Width (Approx) 'W' mm	Height (Approx) 'H' mm		
1.5	22/0.30*	0.6	0.9	10.30	4.9	12.10	14
2.5	36/0.30*	0.7	1.0	12.60	5.8	7.41	18
4.0	56/0.30**	0.8	1.0	14.80	6.6	4.95	26

Note:

The strand diameter is nominal. However, construction of conductor is designed to satisfy the requirements of conductor resistance as per IS 8130 : 1984.

* As per Conductor Class 2 of IS 8130 : 1984

** As per conductor Class 5 of IS 8130 : 1984

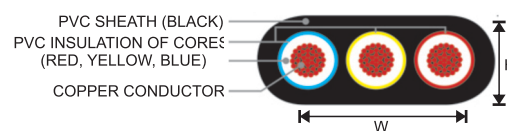


3 Core Flat Cables generally conforming to IS 694:1990

Conductor		Insulation	Sheath	Overall Dimension		Conductor Resistance @ 20°C (max) ohms/km.	Current Carrying Capacity @ 40°C Amps
Area sq.mm.	No. of Strands / Dia. mm	Thickness (Nom) mm	Thickness (Nom) mm	Width (Approx.) 'W' mm	Height (Approx.) 'H' mm		
6.0	84/0.30	0.8	1.15	16.50	7.40	3.30	31
10.0	140/0.30	1.0	1.40	21.00	9.25	1.91	42
16.0	226/0.30	1.0	1.40	24.50	10.70	1.21	57
25.0	354/0.30	1.2	2.00	30.60	13.50	0.780	72
35.0	495/0.30	1.2	2.00	34.40	14.70	0.554	90
50.0	703/0.30	1.4	2.20	41.20	17.20	0.386	115
70.0	360/0.50	1.4	2.20	46.60	19.00	0.272	143
95.0	475/0.50	1.6	2.40	53.00	21.40	0.206	165

Note :

The number of wires and strand diameter will be such as to satisfy the requirements of conductor resistance as per IS 8130 : 1984



Colours:
Insulation:- Red, Yellow, Blue
Outer PVC Sheath:- Black Or As Per Customer's Requirement

Packing:
Cables Are Available In Drums And Different Size Of Coil Forms.

SELECTION GUIDE FOR 3 CORE FLAT CABLES

1) HP Vs 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

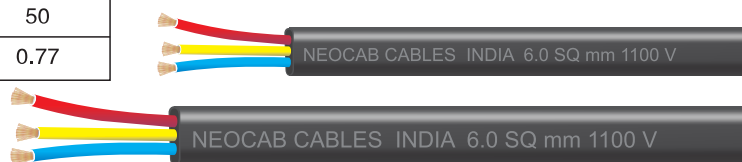
2) Derating Factors : Multiply the current carrying capacity of the cable by factors given below for various ambient temperatures.

Ambient Temperature °C	30	35	40	45	50
Rating Factor	1.09	1.04	1.00	0.95	0.77

Manufactured by :

RS INDUSTRIES

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નીચોકેબ સબમર્સીબલ કેબલ્સના પ્રખ્યાત સખાચર અને નિકાસકારો છે. નીચોકેબ વાયર ઈન્ડસ્ટ્રીમાં સોથી ઝડપી વિકસતી કંપનીઓમાંની એક છે. અમારા પ્રશિક્ષિત ઈજનેરો દ્વારા ઊંચી ગુણવત્તાની કાચી સામગ્રી નો ઉપયોગ કરી 3 કોર ફ્લેટ કેબલ્સ બનાવવામાં આવે છે.

પંપ માટેના 3 કોર ફ્લેટ કેબલ્સનો ખુબ ઊંડાઈમાં ઉપયોગ થાય છે. આથી તેને ભેજ માટે ઉત્તમ પ્રતિરોધક, ઘર્ષણ તથા યાંત્રિક અને વિદ્યુત પ્રતિરોધક, કેમિકલ અને ઓઈલ જેવી અશુદ્ધિઓના પ્રતિકાર કરવાની ક્ષમતા સાથે બનાવવામાં આવે છે.

આ કેબલમાં વપરાતા ઈલેક્ટ્રોલાઈટીક ગ્રેડ કોપર વાયર ઊંચી શુદ્ધતાના (EC Copper) ૯૯.૯૭% ના હોય છે. તેમને ઓનલાઈન અત્યાધુનિક મશીનો દ્વારા કાળજી પુર્વક Bunch કરવામાં આવે છે. ઓન લાઈન તેમજ Dual Extrusion લાઈન પર ખાસ ગ્રેડ શુદ્ધ પીવીસી કંપાઉન્ડ થી ઈન્સ્યુલેશન કરવામાં આવે છે. તેમજ સબમર્સીબલ કેબલ્સની જરૂરિયાતની પુરી કરવા અવાહક અને ઘર્ષણ પ્રતિરોધક પીવીસી સંયોજન સાથે બાહ્ય આવરણ બનાવવામાં આવે છે.

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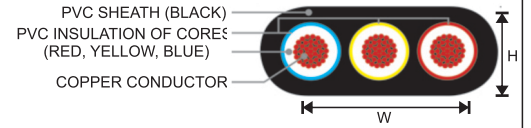
** As per conductor Class 5 of IS 8130 : 1984



3 Core Flat Cables generally conforming to IS 694:1990							
Conductor		Insulation	Sheath	Overall Dimension		Conductor Resistance @ 20°C (max) ohms/km.	Current Carrying Capacity @ 40°C Amps
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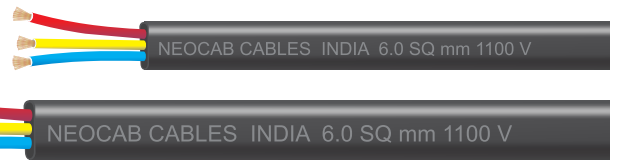
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Amp	7.5	11.0	14.9	18.9	22.5	25.2	28.4	35.6	42.3	50.4	58.1	62.1	67.5	73.8	81.0	87.3	93.6	100.8	108.0

2) Derating Factors : Multiply the current carrying capacity of the cable by factors given below for various ambient temperatures.

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