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ONLY THE BEST SUBMERSIBLE CABLES CAN WITHSTAND THE HARSHEST CONDITIONS.

PVC/PVC 3 CORE SUBMERSIBLE FLAT CABLE

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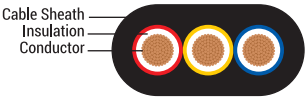

APPLICATION

The PVC insulated and sheathed 3 core flat cables are mainly used in pump connections. They are also used in many industrial applications.
The sheath is specially made out to resist tough and difficult outdoor conditions & excellent resistant to water.

TECHNICAL DATA

Approvals : IS 694 marked, FIA/TAC
Conductor : Electrolytic grade annealed copper
Core Colour : Red, yellow (centre core), blue
Sheath Colour : Black
Voltage Grade : Upto and including 1100V
Packing : Standard packing of 100 mtr. in coils. Longer length available on request.

VARIANTS AVAILABLE

Product Type	Specifications
PVC 70°C	IS 694, IS 8130 class 5, IS 5831 Type A insulation & ST-1 sheath.
HR 85°C	IS 694, IS 8130 class 5, IS 5831 Type C insulation & ST-2 sheath.

CABLE DESIGN PARAMETERS

Kindly complete the part numbers for these cables by adding the suffix (in place of 'y') for the cable type 1 – PVC 70°C, 3 - PVC HR 85°C.

Part Number	Conductor construction		Conductor resistance at 20 °C (Ω/km) Max.	Nominal Insulation thickness (mm)	Nominal Sheath Thickness (mm)	Approx. overall dimensions (W X H) (mm) +/- 0.5 mm	Current carrying capacity (Ampere)
	Cross sectional area (Sq. mm)	No./Max. dia of strands (mm)					
0118110102y1	0.5	16/0.2	39.0	0.6	0.9	9.60 X 4.90	4
0118110202y1	0.75	24/0.2	26.0	0.6	0.9	10.5 X 5.20	7
0118110302y1	1	32/0.2	19.5	0.6	0.9	11.0 X 5.40	12
0118110402y1	1.5	30/0.25	13.30	0.6	0.9	12.0 X 5.6	16
0118110502y1	2.5	50/0.25	7.98	0.7	1.0	13.0 X 6.2	22
0118110602y1	4	56/0.3	4.95	0.8	1.0	15.3 X 7.1	28
0118110702y1	6	84/0.3	3.30	0.8	1.1	19.2 X 8.4	36
0118110802y1	10	140/0.3	1.91	1.0	1.4	24.2 X 10.4	48
0118110902y1	16	126/0.4	1.21	1.0	1.4	29.0 X 12.4	64
0118111002y1	25	196/0.4	0.78	1.2	2.0	36.5 X 15.7	80
0118111102y1	35	276/0.4	0.554	1.2	2.0	40.5 X 17.2	100
0118111202y1	50	396/0.4	0.386	1.4	2.2	46.5 X 19.3	130
0118111302y1	70	360/0.5	0.272	1.4	2.2	52.0 X 21.0	192
0118111402y1	95	480/0.5	0.206	1.6	2.4	61.0 X 24.5	230

CURRENT RATING CONVERSION FACTOR FOR DEVIATING AMBIENT TEMPERATURE

Multiply the current carrying capacity of the cable by the factors given below for various ambient temperature.

Ambient Temperature (°C)	25	30	35	40	45	50	55	60
Derating Factor	1.25	1.16	1.09	1.00	0.9	0.81	0.74	0.68

XLPE/PVC 3 CORE SUBMERSIBLE FLAT CABLE

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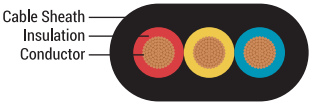

APPLICATION

These cables are mainly used in pump connection. Though they are mainly used to supply power to pumps, they are also used in industrial applications. These cables are specially manufactured keeping in mind the severe, tough and difficult conditions in which they are used.

TECHNICAL DATA

Conductor : Electrolytic grade annealed plain copper
Core Colours : Red, yellow (centre core), blue
Sheath Colour : Black
Voltage Grade: Upto and inducting 1100V
Packing: Standard packing of 100mtr in coils. Longer length available on request.

VARIANTS AVAILABLE

Product Type	Specifications
XLPE/PVC	Class 5 to IS 8130, XLPE insulation & PVC ST-2 sheath to IS 5831

CABLE DESIGN PARAMETERS

Part Number	Conductor construction		Conductor resistance at 20 °C (Ω/km) Max.	Nominal Insulation thickness (mm)	Nominal Sheath Thickness (mm)	Approx. overall dimensions (W X H) (mm) +/- 0.5 mm	Current carrying capacity (Ampere)
	Nominal Cross Sectional Area (Sq. mm)	No./Max. dia of strands (mm)					
011910300001	1	14/0.3	18.1	0.7	1.0	10.6 X 5.2	12
011910301105	1.5	30/0.25	13.30	0.7	1.0	11.6 X 5.5	18
011910301205	2.5	50/0.25	7.98	0.7	1.1	13.1 X 6.2	28
011910300004	4	56/0.3	4.95	0.8	1.1	15.0 X 6.8	37
011910300006	6	84/0.3	3.30	0.8	1.2	17.2 X 7.7	46
011910300010	10	140/0.3	1.91	0.8	1.3	20.2 X 8.8	66
011910300016	16	126/0.4	1.21	0.8	1.4	23.6 X 10.0	85
011910300025	25	196/0.4	0.78	1.0	1.5	28.9 X 12.0	113
011910300035	35	276/0.4	0.554	1.0	1.6	32.7 X 13.4	139
011910300050	50	396/0.4	0.386	1.2	1.7	38.7 X 15.5	156

CURRENT RATING CONVERSION FACTOR FOR DEVIATING AMBIENT TEMPERATURE

Multiply the current carrying capacity of the cable by the factors given below for various ambient temperature.

Ambient Temperature (°C)	25	30	35	40	45	50	55	60	65	70	75	80
Derating Factor	1.16	1.11	1.06	1.00	0.95	0.88	0.82	0.78	0.74	0.71	0.67	0.64

XLPE/PVC 3 CORE SUBMERSIBLE FLAT CABLE WITH WALL

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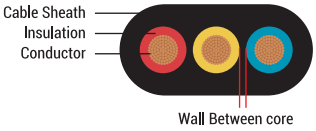

These submersible flat cable are specially designed to provide distinguished tube like structure for the insulated cores. The wall between the cores perfectly separates them from coming in contact with each other and provides better mechanical and electrical strength compared to the traditional submersible flat cables. The knurling on the outer surface makes the cable more durable and provides improved abrasion resistance during handling and installation of these cables.

APPLICATION

These cables are mainly used in submersible pump connections. These cables are specially designed keeping in mind the tough and severe conditions in which they are used.

CONSTRUCTION

Conductors : Electrolytic Annealed Plain Copper, IS 8130
Insulation : Cross-linked Polyethylene (XLPE)
Core Identification : Red, Yellow (Center Core), Blue
Sheath : PVC, Type ST 2, IS 5831
Sheath Color : Black (Knurling on the width on both sides)

TECHNICAL DATA

Nominal Voltage : 1100 V
Max. Operating Temperature : 90°C
Test Voltage : 3 kV for 5 Min
Minimum Bending Radius : Fixed, 4 X Cable Ø

CABLE DESIGN PARAMETERS

Cross sectional area (Sq. mm)	No of Strands / Max. strand dia. (mm)	Nominal Insulation Thickness (mm)	Nominal Sheath Thickness (mm)	Approx. overall dimensions (W X H) (mm)	Max DC Conductor Resistance @ 20°C (Ω/Km)	Current carrying capacity (Ampere)
1.5	30/0.25	0.7	0.9	12.4 x 5.0	13.30	18
2.5	50/0.25	0.7	1.0	14.3 x 6.1	7.98	28
4.0	56/0.3	0.8	1.0	16.3 x 6.9	4.95	37
6.0	84/0.3	0.8	1.1	18.0 x 7.2	3.30	46

CURRENT RATING CONVERSION FACTOR FOR DEVIATING AMBIENT TEMPERATURE

Ambient Temperature (°C)	25	30	35	40	45	50
Derating Factor	1.16	1.11	1.06	1	0.95	0.88

Note: The dimensions and specifications may be changed without prior notice.

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