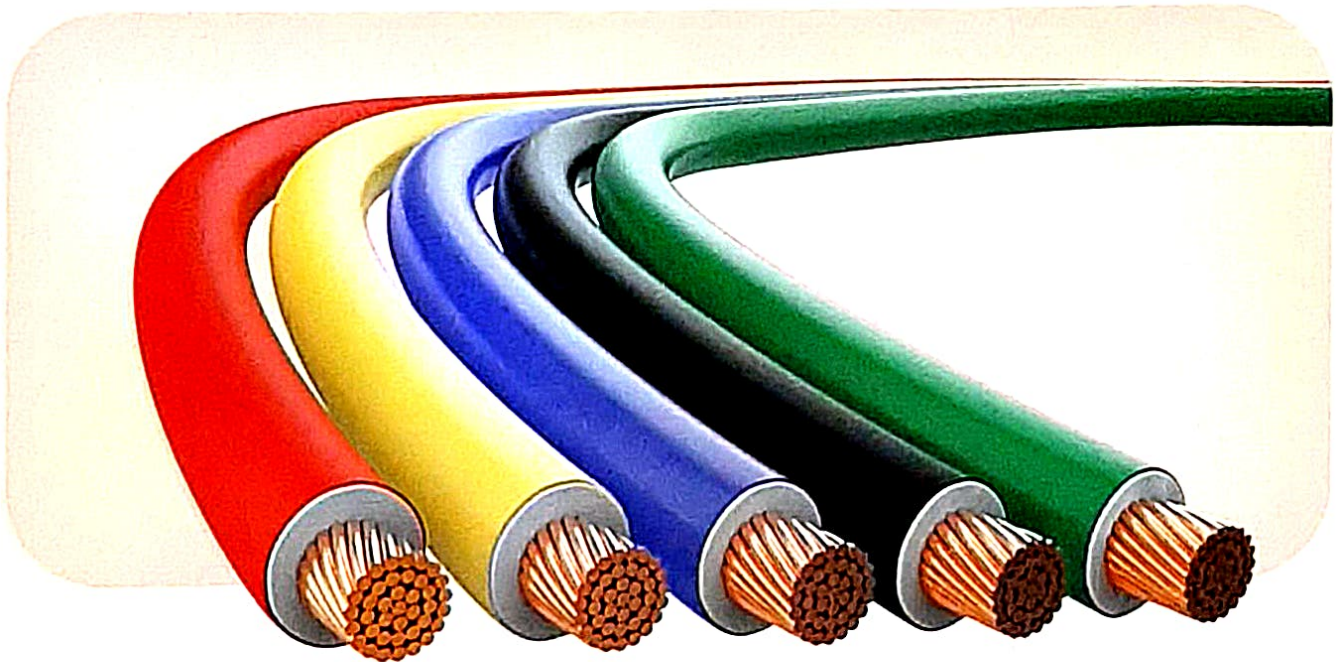




THE SAFEST CHOICE

Advanced Flame Retardant
Wires and Cables



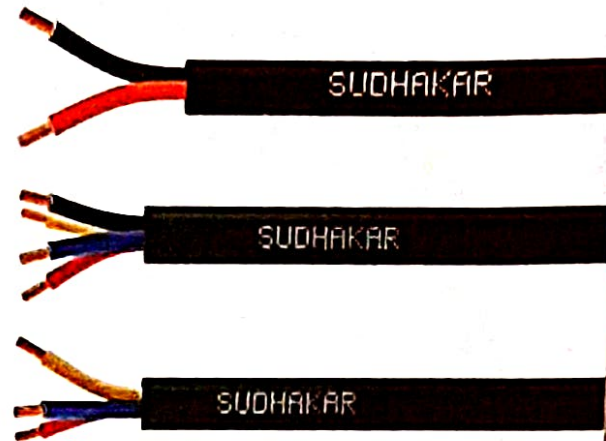
Reliable | Durable | Flexible

Multi Core

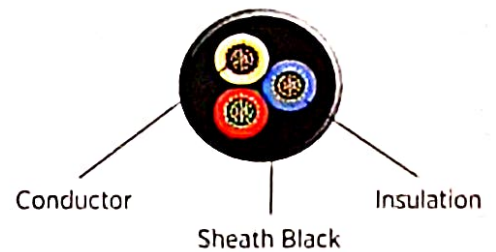
Light Duty Sheathed Copper Conductor Flexible Cables

SUDHAKAR Multi-core cables are manufactured with premium quality and highly flexible copper conductor, Class 5 of IS 8130, suitable for both, industrial and domestic applications. The sheathing material is used to protect the insulated cores from mechanical damage. The sheathing compound is again specially formulated PVC compound which combines greater flexibility with superior mechanical strength to withstand rigorous use involving impact and abrasion; yet it is easily separable from cores and special properties like resistance to weathering, fungi, bacteria and termite can be provided for specific conditions and circumstances of use. It is a special grade PVC for high temperature insulation and low power consumption.

- Approval: IS 694:2010 marked
 Conductor: As per Class-5, IS 8130:2013
 Insulation: IS 5831, Type D
 Marking: Cables are printed with marking of SUDHAKAR - (Core) (Size Sq.mm) 1100 V with CM/L No.6300032284
 Colours: 2 Core Red & Black
 3 Core: Red, Yellow & Blue
 4 Core: Red, Yellow, Blue & Black color PVC ST3 sheath
 Packing: 100 mtrs length in poly pack, longer length available on request in wooden drums



As Per IS 694:2010
 Voltage Grade Upto 1100V



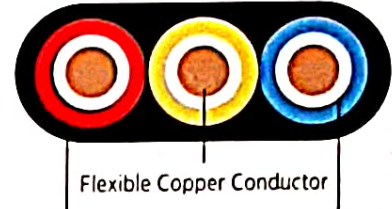
Nom Cross Sectional Area of Conductor	No / Nom Dia of cond, strands	Thickness of PVC Insulation (Nominal)	Thickness of Sheath (Nominal)			Overall Diameter (Approx)			Current Rating AC	Voltage drop/ Amp/ Meter		Max. Resistance of Conductor at 20°C
			2 Core	3 Core	4 Core	2 Core	3 Core	4 Core		mV	mV	
Sq.mm	Mm	Mm	Mm	Mm	Mm	Mm	Mm	Mm	Amp	mV	mV	Ohm/km
0.5	16/0.20	0.6	0.9	0.9	0.9	6.5	6.8	7.3	5	83	72	39.0
0.75	24/0.20	0.6	0.9	0.9	0.9	6.8	7.2	7.7	8	56	48	26.0
1	32/0.20	0.6	0.9	0.9	0.9	7.1	7.6	8.3	13	43	38	19.5
1.5	30/0.25	0.6	0.9	0.9	1.0	7.8	8.3	9.2	16	29	25	13.3
2.5	40/0.25	0.7	1.0	1.0	1.0	9.5	10.1	10.7	20	18	15	7.98
4	56/0.30	0.8	1.0	1.0	1.0	11	11.4	12.3	27	12	9.6	4.95
6	84/0.30	0.8	1.1	1.2	1.2	12.6	13	14.2	34	7.4	6.3	3.3
10	140/0.30	1.0	1.3	1.4	1.4	14.8	16	18	45	4.3	3.8	1.91
16	126/0.40	1.0	1.4	1.4	1.4	17.2	18.3	20.3	61	2.7	2.3	1.21

Flat Three Core - PVC

PVC Insulated and Sheathed Cable for Submersible Pump.

SUDHAKAR Flat cables are manufactured from bright electrolytic grade copper, ideal for submersible pump motors. The wires are drawn, annealed and bunched properly to ensure flexibility and uniform resistance. Our cables are ISI marked. The outer sheath of the cable is made from special grade of abrasion resistant PVC compound to provide higher electrical safety from water, grease and oil, and for a longer cable life.

As Per IS 694:2010



PVC Insulations of Cores (Red, Yellow, Blue) PVC Sheath (Black)

- Approval: IS 694:2010 marked
- Conductor: As per Class 5 (IS: 8130 2013)
- Insulation: IS: 5831, Type A+ PVC, HR PVC
- Marking: Cables are printed with marking of SUDHAKAR - (Core) (Size Sq.mm) 1100 V with CM/L No. 6300032284
- Colours: Red, Yellow, Blue with Black color PVC sheath
- Packing: 500m / 1000 m length drums

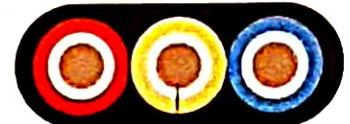
Nom Cross Sectional Area of Conductor	Nos. & Diameter of Wire	Nominal Thickness of Insulation	Nominal Thickness of Sheath	Approx Overall Dimensions Width x Height	Current Rating	Max DC Resistance at 20°C	Water Permeability / Penetration
Sq.mm	Nos./ mm	mm	mm	mm	amp	ohm/km	
15	30/0.25	0.60	0.90	12.0 x 5.6	16	13.3	ALMOST NIL
25	48/0.25	0.70	1.0	13.3 x 6.2	20	7.98	
4	56/0.30	0.85	1.0	15.3 x 7.1	27	4.95	
6	84/0.30	0.85	1.1	19.2 x 8.4	34	3.30	
10	140/0.30	1.05	1.4	24.2 x 10.4	44	1.91	
16	126/0.40	1.05	1.4	29.0 x 12.4	61	1.21	

* Conductor shall be Class-II for 10, 15 & 25 Sq mm & for other size shall be Class-5



Flat Three Core - XLPE

XLPE Insulated and PVC Sheathed Cable for Submersible Pump



Flexible Copper Conductor

XLPE Insulations of Cores (Red, Yellow, Blue) PVC Sheath (Black)

SUDHAKAR Flat cables are manufactured from bright electrolytic grade copper, the wires are drawn from drawing process, annealed and bunched properly to ensure flexibility and uniform resistance. Polyethylene base material cross-link with catalyst, thus improving the current carrying capacity and mechanical strength of insulation. The outer sheath of the cable is made from a special grade of abrasion resistant PVC ST2 compound to provide higher electrical safety from water, grease and oil, and for a longer cable life.

SPECIAL ASPECTS:

- Higher Current Rating
- Higher Short Circuit Rating
- Longer Service Life
- Due to the chemical cross-linking internal stresses are reduced
- The excellent mechanical features of the insulation improve the protection against external effects

FLAT THREE CORE 1100V XLPE Insulated and ST2 PVC Sheathed Flexible Cable for Submersible Pump / Motor

Conductor: As per Class 5 (IS: 8130 2013)
Insulation: XLPE (Cross-Linked Poly Ethylene)
Sheathing: ST2 PVC
Marking: Cables are printed with marking of SUDHAKAR - (Core) (Size Sq.mm) XLPE Flat Cable 1100 V
Colours: Red, Yellow, Blue with a Black colour ST2 PVC sheath
Packing: 500 / 1000 mtrs length in Wooden Drum.

Nom Cross Sectional Area of Conductor	Nos. & Diameter of Wire	Nominal Thickness of Insulation	Nominal Thickness of Sheath	Approx Overall Dimensions Width x Height	Current Rating	Max DC Resistance at 20°C	Water Permeability / Penetration
Sq.mm	Nos./mm	mm	mm	mm	amp	ohm/km	ALMOST NIL
15	30/0.25	0.70	10	12.0 x 5.6	25	13.3	
2.5	48/0.25	0.80	11	13.3 x 5.9	30	7.93	
4	56/0.30	0.85	12	15.3 x 6.7	44	4.95	
6	84/0.30	0.85	12	17.4 x 7.4	55	3.30	
10	140/0.30	1.05	13	21.5 x 8.9	74	1.91	
16	126/0.40	1.05	14	25.0 x 10.2	94	1.21	

For all size shall be Class-5

Electrical Insulation Tape - FR

SUDHAKAR PVC Electrical Insulation Tape of FR (Flame Retardant). Manufactured as per IS 7809 Part 3/Sec-1.



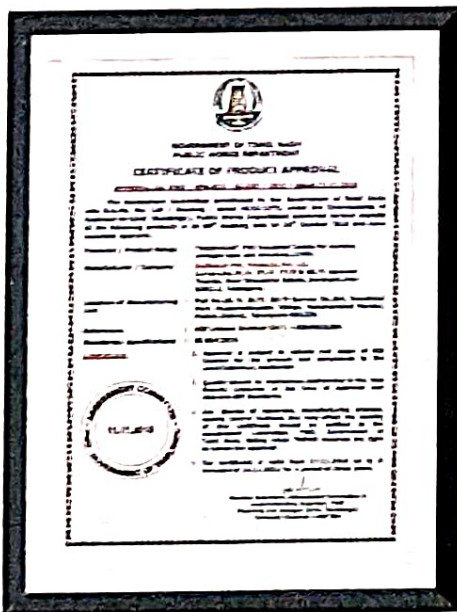
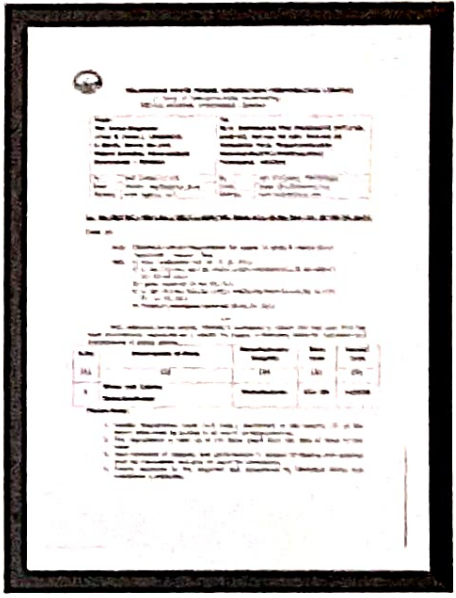
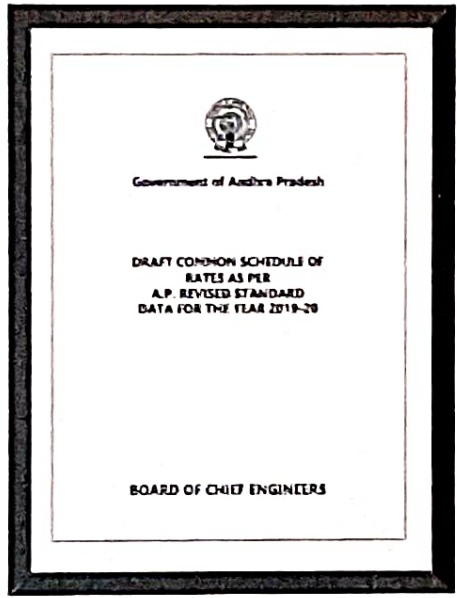
Particulars	Specified Values
Nominal Thickness	0.125 ± 0.025 mm
Tensile Strength	150 N
Adhesion to steel	1.6 N/10mm width (Min)
Adhesion to grip	1.3 N/10mm width (Min)
Electric Strength at RT	40kV/mm
Electric Strength after 24hrs humidification at 27°C	35kV/mm
Flammability	Flame Retardant
Insulation Resistance	1 X 10 ⁵ M-ohm

SPECIAL ASPECTS :

- Flame retardant
- Uniform thickness and width
- Controlled primer coating
- Proprietary formulation of rubber-based adhesive
- The non-migratory, non-oozing adhesive that prevents telescoping
- High stability and ageing characteristics
- Water and weather resistant, also resistant to acids, alkalis, oils, greases and gasoline
- Withstand an AC breakdown voltage of above 6500V
- Excellent moisture and corrosion resistance
- Withstand short circuits/leakage currents
- Superior mechanical support at high operating temperature (up to 100°C)

AVAILABLE COLOURS





Special Aspects of SUDHAKAR Cable

Triple 'C' Cable

Higher Current Carrying Capacity
Lesser Conductor Resistance
Better Compact & Circularity

90m+

Length Assured Cable

102%

Conductivity

100%

Electrolytic Grade Copper

100%

Bunching

Higher IR & VR

properties in Insulation PVC
to arrest the leakage currents.

32+LOI

(i.e oxygen index)

**Specialized Inner
PVC compound**

to absorb the conductor heating
and improve the life of the cable.

Better flexibility

cable for easy pulling in conduit
Withstand the overloads*

Our Prestigious Clients

