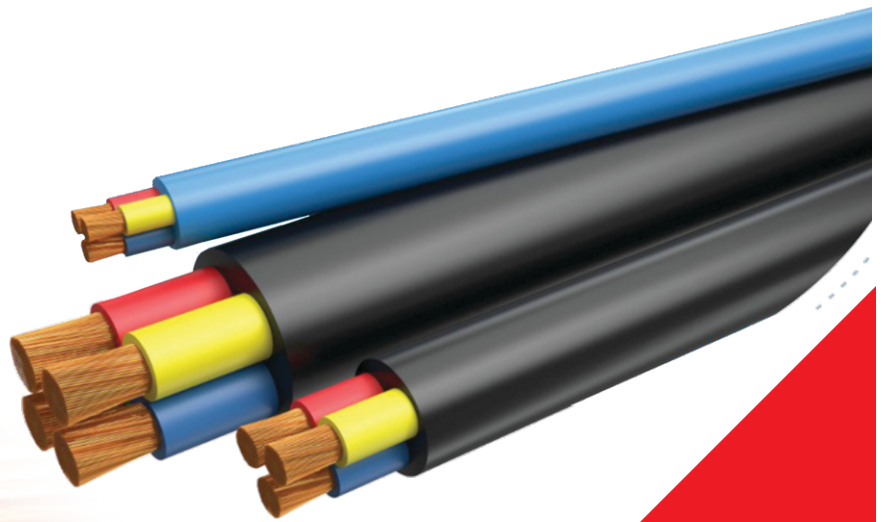




KUNAI INDUSTRIES
National Award Winning Company



Copper winding wires & Cables



Introduction

Mr. Subhash Budhraja established Kunal Industries three decades ago in 1992 in the vicinity of a beautiful town, Pandhurna, located at the heart of the nation, Madhya Pradesh, India. And since then, the Company has consistently delivered quality products to pump and motor industries in India and across under its well-known and reputed brand name "Shivam." Its product mix includes Submersible copper winding wires and Enameled copper winding wires.

Kunal Industries is a privileged recipient of the prestigious "National Award for Quality Products" by the Vice President of India. Kunal Industries is well-known in the industry as a **Winding Wire Specialist** because of its strict quality control procedures and comprehensive knowledge of the technical aspects of winding wires & Cables. Kunal Industries also started manufacturing variety of copper cables with state of the art facility.

Our Vision

To become the most recognized company in sector of copper wires & cables with global benchmarks and strong organizational values.

Our Mission

We are committed to manufacture copper winding wires & cables as per national/international requirements with an objective to meet the customer satisfaction by continuously improving quality management system. Our success lies in our continuous commitment in providing quality products, emphasis on technology and customer centric approach in delivering the best products year after year for more than three decades. Our belief in these values has not only made us the leader but also an "industry standard" for winding wires & cable. Our future plans include to further expand our business in global markets with the same commitment and passion.



OUR BRAND

Known for its quality, Shivam is one of the most preferred brand by OEM's (original Equipment manufacturer). With the strong distribution network, Shivam is a popular brand in dealers and rewinding market. The Company is also acquiring esteem in the export market.



DON'T SIT DOWN AND WAIT FOR THE OPPORTUNITIES TO COME. GET UP AND MAKE THEM.

- MADAM C.J WALKER

30+

YEARS OF EXPERIENCE

100%

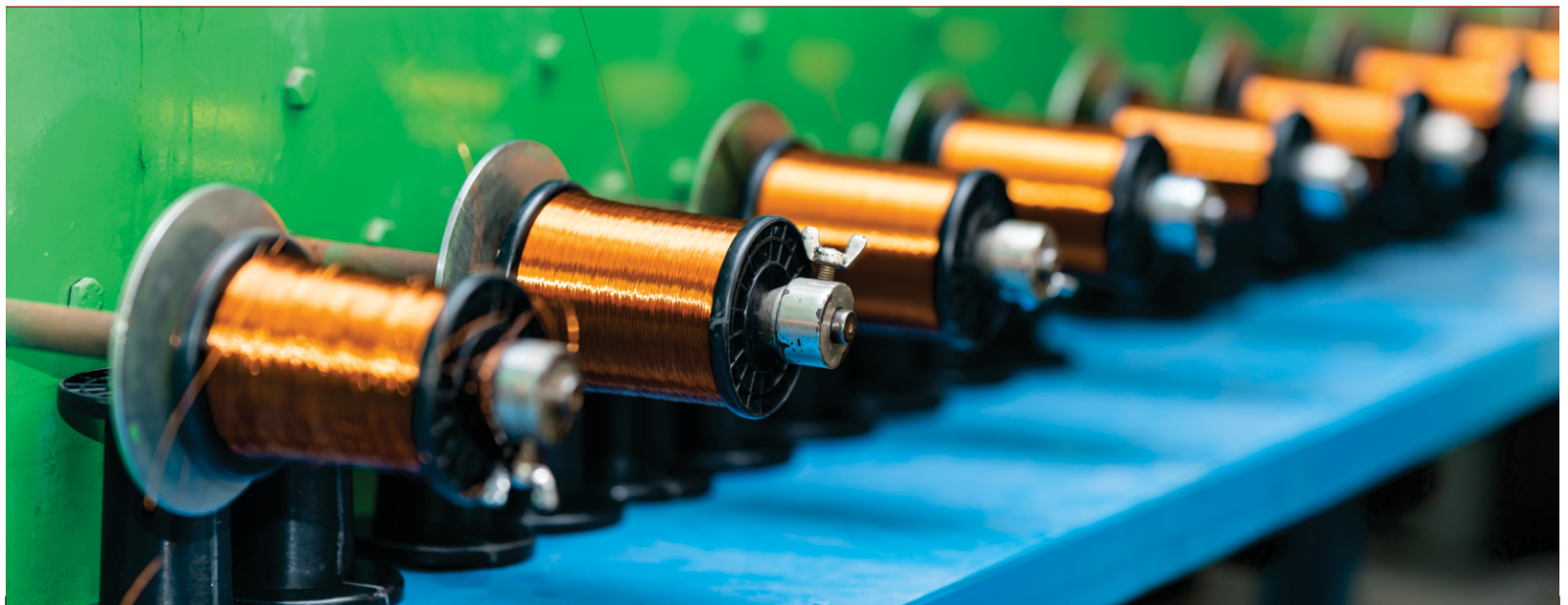
QUALITY TESTED

15+

STATES SERVED

5+

COUNTRIES SERVED



Our Clients



MANGLA®
PUMPS & CABLES

TATA
PRECISION INDUSTRIES (INDIA) LIMITED



V-GUARD



Raymond

Since 1960
MAHENDRA
PUMPS



JK
J K PUMP INDUSTRIES

CRnto
PUMPS • MOTORS

sharp
The No 1 Pump



Inder
engineering

Excel
transformers

एनटीपीसी
NTPC

Regd. Trade Mark No. 1225485 ®
CROWN
GRIP



SINGLA
Pumps & Motors



HP
HINDUSTAN
PUMPS

JAI KISAN



TESLA
TESLA TRANSFORMERS (GLOBAL) PVT. LTD.



Vallabh
Pumps
FEEL THE FLOW

Awadh
Transformer

LAO SONS
PUMPS

Enova
Pumps

Zubaira
PUMPS & MOTOR

Our Certifications

KUNAL INDUSTRIES HAS ACHIEVED FOLLOWING CERTIFICATION FROM APPROVED STATUTORY AUTHORITIES.



Our Products



SUBMERSIBLE WINDING WIRE



ENAMELED WINDING WIRE



BARE COPPER WIRE



COPPER CABLES



Submersible Copper Wire

APPLICATION

SUBMERSIBLE WINDING WIRES ARE USED IN SUBMERSIBLE PUMPS MOTORS OF ALL SIZES FOR DOMESTIC AND INDUSTRIAL APPLICATION.

SPECIAL FEATURES

- SAVES ENERGY – ETP GRADE HIGH CONDUCTIVITY ANNEALED COPPER USED
- MINIMAL LEAKAGE CURRENT – HIGH INSULATION RESISTANCE.
- TEAR RESISTANT – HIGH MECHANICAL STRENGTH – HIGH TENSILE STRENGTH
- EACH COIL TESTED AT 4000 V
- HEAT SHOCK TEST – AT 150 C
- EASY WINDING

PACKING

AVAILABLE IN COIL FORM. SUITABLE/REQUIRED LENGTH AS PER SIZE. PACKED IN INNER AND OUTER CORRUGATED BOXES WITH BEST IN CLASS PACKAGING MATERIAL.

SIZE RANGE

0.40MM- 3.00 MM

SPECIFICATIONS

IS 8783:1995 (Part 2 Section 3)



Sr. No.	Nominal Conductor Diameter (mm)	Tolerance + - (mm)	Nominal Resistance ohms/km at 20°C	Weight Of poly Wrapped (kg/km)	Elongation minimum (%)
1	0.4	0.004	137.15	1.467	24
2	0.5	0.005	87.78	2.154	25
3	0.6	0.006	60.96	2.98	26
4	0.7	0.007	44.78	3.946	28
5	0.8	0.008	34.29	5.052	28
6	0.9	0.009	27.09	6.298	29
7	1	0.01	21.94	7.683	30
8	1.1	0.011	18.14	9.208	31
9	1.2	0.012	15.24	10.873	32
10	1.3	0.013	12.98	12.678	32
11	1.4	0.014	11.2	14.981	32
12	1.5	0.015	9.75	16.989	32
13	1.6	0.016	8.75	19.227	32
14	1.7	0.017	7.59	21.605	32
15	1.8	0.018	6.77	24.122	32
16	1.9	0.019	6.08	26.78	32
17	2	0.02	5.49	29.576	32
18	2.1	0.021	4.98	32.513	32
19	2.2	0.022	4.53	35.589	33
20	2.3	0.023	4.15	38.805	33
21	2.4	0.024	3.81	42.161	33
22	2.5	0.025	3.51	45.656	33
23	2.6	0.026	3.25	49.291	34
24	2.7	0.027	3.01	53.066	34
25	2.8	0.028	2.8	56.98	34
26	2.9	0.029	2.61	61.035	34
27	3	0.03	2.44	65.228	34

* This are Specified Value. Shivam Wires Show Better Performance and Tolerance.

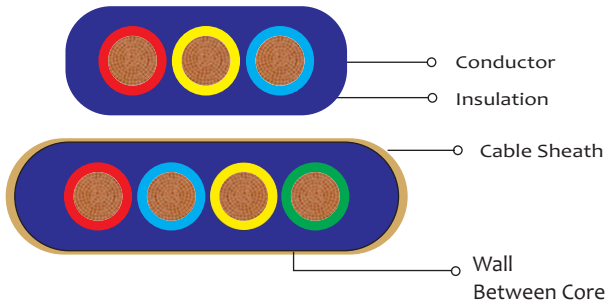
* Outer diameter (OD) / insulation thickness can be customized as per customer requirement.



Enameled Copper Wire

PRODUCT RANGE AND QUALITY SPECIFICATION

Wire Type Properties	Polyster	Modified Polyster	Polysterimide	Dual Coated Wire PE/PEI + PAI
Thermal Class	130° C	155° C	180° C	200° C
Class Insulation	B	F	H	H+
Colour	Brown / Reddish-Golden	Light Brown to Dark Brown	Dark Brown (Mahogany)	Reddish Brown to Golden
Range - Copper	0.150 to 4.000 mm	0.150 to 4.000 mm	0.150 to 4.000 mm	0.150 to 4.000 mm
Specification -	IS 13730.34	IS 13730.3	IS 13730-8	IS 13730-30
Copper	IEC 60317-34	IEC 603173	IEC 60317-8	IEC 60317-3
Mechanical Tests				
Flexibility	1 x D	1 x D	1 x D	1 x D
Thermal Tests				
Heat Shock	6 x D 155 C - 30 min	2.24 xD 175 C - 30 min	2.24 xD 200 C - 30 min	2.24 xD 200 C - 30 min
Cut Through	240 C - 2 min	240 C - 2 min	300 C - 2 min	320 C - 2 min
Transformer Oil	N.A.	N.A.	Excellent	Excellent
Resistance				
Electrical Resistance	Within Range	Within Range	Within Range	Within Range
Breakdown Voltage	Above 8.0 KV	Above 8.0 KV	Above 8.0 KV	Above 8.0 KV
(Pin Holes)	Normally - Nil	Normally - Nil	Normally - Nil	Normally - Nil
Bending Point	110 - 120	145 - 155	175 - 195	175 - 195
Application	Domestic equipments, pumps, motors, stablizer, transformer, fans and auto electricals requiring high mechanical properties.	General purpose rotating & static equipments like large pump motors, generators, air cooled transformers voltage stabilizers, heavy duty domestic appliances like mixer - grinder, washing machine, where temperature is above class insulation B.	Continuously rated heavy duty motors and tools, oil filled transformers. Hermetic grade for AC and refrigerator compressor, compressor, furnace motors and for all class insulation H application.	Special purpose machines like wind generators. Large motors and generators extra heavy duty equipments like crane motors with heavy shock loads. AC and refrigerator compressor windings.



SUBMERSIBLE FLAT CABLE 3 & 4 CORE



Cable Standard

IS 694:2010, BS 6500, IEC 60227

Salient Features

- Excellent flexibility
- Excellent resistant to moisture, abrasion, grease, oil
- Long Life
- Excellent mechanical & electrical properties

Technical Data

Working Temp : Max.+70°C
Nominal Voltage : 1.1 KV
Test Voltage : 3.0 KV
Min. Bending Radius : 6 x Cable Diameter

Standard Packing

Coils 100, 200, 300, 500, 1000m

Conductor : Flexible Bare Bunch Copper as per IS:8130

Insulation : PVC / XLPE / EPR RUBBER

Outer Sheath : PVC / EPR RUBBER

Core Colour

As per IS: 694:2010-3C- Red, Yellow, Blue,
4C - Red, Yellow, Blue, Black
As per IEC:60227-3C-Black, Blue, Brown.
4C-Black, Blue, Brown, Green or Yellow/Green

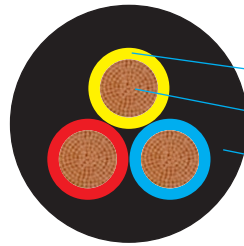
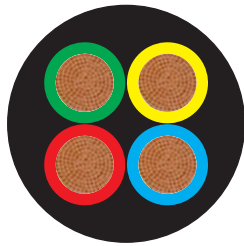
Application

Ideal For Irrigation Pumps, Drinking Water Supply
Pumps, Submersible Pump Motor Power Supply.

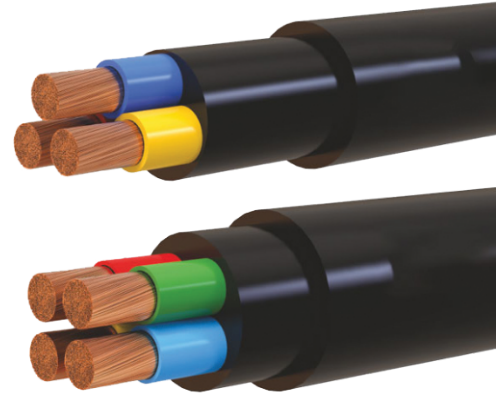
Conductor		Insulation		Sheath			Conductor Resistance at 20°C (max)	Current Rating At Ambient Temperature
Size of Cable	No. of Wire /Size of Wire	Thickness	Core OD	Thickness	Overall Size			
					3 Core	4 Core		
Sq.mm	Nos.mm	mm	mm	mm	mm	mm	Ω/km.	Amps.
1.0	14/0.30	0.60	2.60	0.90	9.90 x 4.70	12.50 x 4.80	18.1	11
1.5	22/0.30	0.60	2.80	0.90	10.50 x 4.80	14.20 x 5.10	12.1	14
2.5	36/0.30	0.70	3.35	1.0	12.60 x 5.90	17.50 x 7.0	7.41	18
4.0	56/0.30	0.80	4.0	1.0	14.50 x 6.70	20.0 x 7.90	4.95	26
6.0	84/0.30	0.80	5.0	1.0	1750 x 7.50	23.50 x 9.0	3.30	31
10.0	140/0.30	1.0	6.5	1.40	22.80 x 9.90	29.0 x 9.90	1.91	52
16.0	224/0.30	1.0	8.0	1.40	28.0 x 13.0	36.0 x 11.40	1.21	70
25.0	350/0.30	1.20	10.0	2.0	24.50 x 14.80	45.0 x 14.70	0.780	88
35.0	490/0.30	1.20	11.50	2.0	38.0 x 17.0	50.0 x 16.20	0.554	112
50.0	700/0.30	1.40	13.50	2.20	46.0 x 20.50	58.0 x 18.30	0.386	146
70.0	980/0.30	1.40	15.3	2.20	53.0 x 23.0	66.5 x 20.0	0.272	190
95.0	1350/0.30	1.60	18.0	2.40	60.0 x 28.0	77.3 x 23.50	0.206	225



PVC INSULATED & PVC SHEATHED ROUND CABLE



- PVC Insulation
- Flexible Copper Conductor
- PVC Outer Sheath



Cable Standard

IS 694:2010, BS 6500,

Salient Features

- High Flexibility
- Excellent resistant to moisture, abrasion, grease, oil
- Long Life
- Excellent mechanical & electrical properties

Technical Data

Working Temp : Max.+70°C

Nominal Voltage : 1.1 KV

Test Voltage : 3.0 KV

Min. Bending Radius : 6 x Cable Diameter

Standard Packing

Coils 100, 200,300, 500, 1000m

Conductor : Flexible Bare or Tinned Bunch
Copper as per IS:8130-1984

Insulation : PVC as per IS:5831-1984
Sheath : PVC as per IS:5831-1984

Core Colour

As per IS 694 :2010

2 core - Red & Black

3 core - Red, Black, Green or Red, Yellow and Blue,

4 Core - Red, Yellow, Blue, and Green or Black

Application

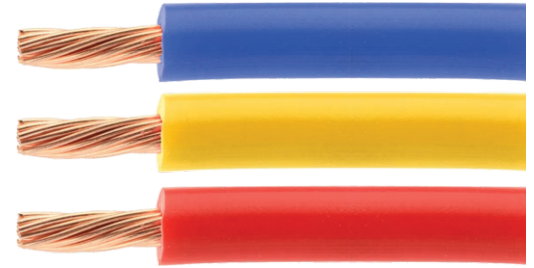
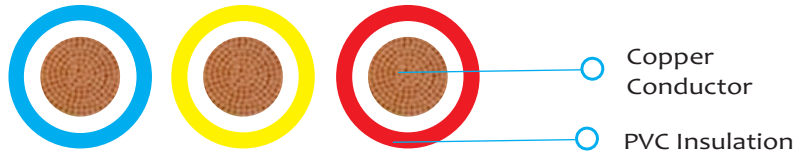
Ideal For industrial induction motor, power tools, electrical machinery etc.....

Conductor		Insulation		Thickness of Sheath and Diameter				Conductor Resistance at 20°C (max)	Current Rating At Ambient Temperature
Size of Cable	No. of Wire /Size of Wire	Thickness (Nominal)	Core OD	Sheath Thickness (Nominal)	2 Core Outer Diameter	3 Core Outer Diameter	4 Core Outer Diameter		
Sq.mm	Nos.mm	mm	mm	mm	mm	mm	mm	Ω/km.	Amps.
0.50	16/0.20	0.60	2.05	0.90	5.60	6.0	6.40	39.0	4
0.75	24/0.20	0.60	2.30	0.90	6.0	6.80	7.20	26.0	7
1.0	32/0.20	0.60	2.50	0.90	6.80	7.0	8.0	19.50	11
1.5	30/0.25	0.60	2.90	0.90	7.80	8.0	9.20	13.30	14
2.5	50/0.25	0.70	3.50	1.0	9.20	9.50	11.10	7.98	18
4.0	56/0.30	0.80	4.0	1.10	10.60	11.60	12.50	4.95	24
6.0	84/0.30	0.80	5.0	1.10	13.0	13.80	15.0	3.30	31
10.0	140/0.30	1.0	6.0	2.0	18.0	19.0	20.20	1.91	52
16.0	224/0.30	1.0	7.30	2.0	20.0	21.50	23.50	1.21	70
25.0	350/0.30	1.2	9.50	2.30	24.0	26.0	28.0	0.780	88
35.0	490/0.30	1.2	11.0	2.50	27.0	29.0	31.50	0.554	112
50.0	700/0.30	1.4	13.0	2.80	30.0	34.0	37.0	0.386	146
70.0	980/0.30	1.4	15.0	3.10	35.0	38.0	42.2	0.272	216
95.0	1330/0.30	1.6	18.0	4.0	42.0	44.50	48.8	0.206	262

- Size 10.0 sqmm Above Outer sheath double cover



SINGLE CORE PANEL WIRE H05V-K & H07V-K



Cable Standard

IS: 694 : 2010 & BS 6004, BS EN 50525-2-31

Cable Features

- Special heat resistant insulation
- Higher current carrying capacity.
- Fine copper wires
- Highly thermal stable insulation
- Excellent resistant to moisture, abrasion, grace, oil
- Long Life
- Excellent mechanical & electrical properties

Application

Fixed installation in conduits and under plaster, for appliance wiring and distribution stations.

Standard Packing

Coils 90 and 180m

Conductor : Flexible Bare Copper conductor class-2 and class-5 as per IS:8130 EN 60228

Insulation : HR/FR/FRLS-H/ZHFR Insulation compound with a high insulation resistance value as per IS:5831

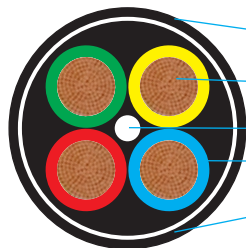
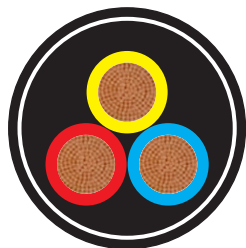
Colour : Red, Yellow/green, Blue, Black, Brown, Grey, Orange, White Green, Yellow

Properties : PVC Self-extinguishing and flame retardant according to EN 60332-1-2

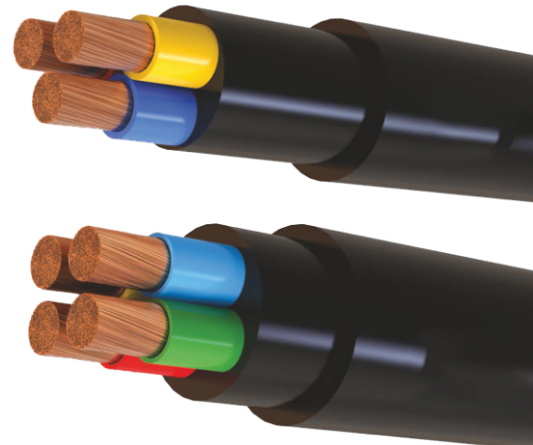
Size of wire	No. of Wire / Size of Wire	Insulation Thickness	OD	Max Conductor Resistance at 20°C	Current Rating At Ambient Temperature
Sq.mm	Nos/mm	(Nominal) mm	mm	Ω/km.	Amps.
0.50	16/0.20	0.6	1.90	39	4
0.75	24/0.20	0.6	2.20	26	8
1.0	14/0.30	0.6	2.40	19.5	11
1.5	22/0.30	0.6	2.80	13.3	14
2.5	36/0.30	0.7	3.35	7.98	18
4.0	56/0.30	0.8	3.80	4.95	24
6.0	84/0.30	0.8	4.80	3.3	31
10.0	140/0.30	1.0	6.0	1.91	52
16.0	224/0.30	1.0	7.50	1.21	75
25.0	350/0.30	1.2	9.50	0.78	88
35.0	490/0.30	1.2	11.0	0.554	112
50.0	703/0.30	1.4	13.0	0.386	146
70.0	988/0.30	1.4	16.0	0.272	212
95.0	1349/0.30	1.6	17.5	0.206	262
120.0	608/0.50	1.6	19.5	0.161	310
150.0	767/0.50	1.8	21.0	0.129	352
185.0	943/0.50	2.0	23.5	0.106	400
240.0	1223/0.50	2.2	26.5	0.0801	475
300.0	1525/0.50	2.4	29.5	0.0641	550
400.0	2035/0.50	2.6	33.5	0.0486	670
500.0	2553/0.50	2.8	37.5	0.0384	750
630.0	3219/0.50	2.8	42.5	0.0287	875



SUBMERSIBLE DOUBLE SHEATH CABLE 3 & 4 CORE



- PVC Outer Sheath
- Copper Conductor
- Filler
- PVC Insulation
- PVC Inner Sheath



Cable Standard

BS 6500 & IS694:2010, IEC 60227

Salient Features

- High Flexibility
- Excellent resistant to moisture, abrasion, grease, oil
- Long Life
- Excellent mechanical & electrical properties

Technical Data

Working Temp : Max.+70°C

Nominal Voltage : 1.1 KV

Test Voltage : 3.0 KV

Min. Bending Radius : 6 x Cable Diameter

Standard Packing

Coils 100, 200,300, 500, 1000m

Conductor : Flexible Bare Bunch Copper as per IS:8130

Insulation : PVC / EPR RUBBER

Inner Sheath : PVC / NBR / TPR RUBBER

Outer Sheath : PVC / NBR / TPR RUBBER

Core Colour

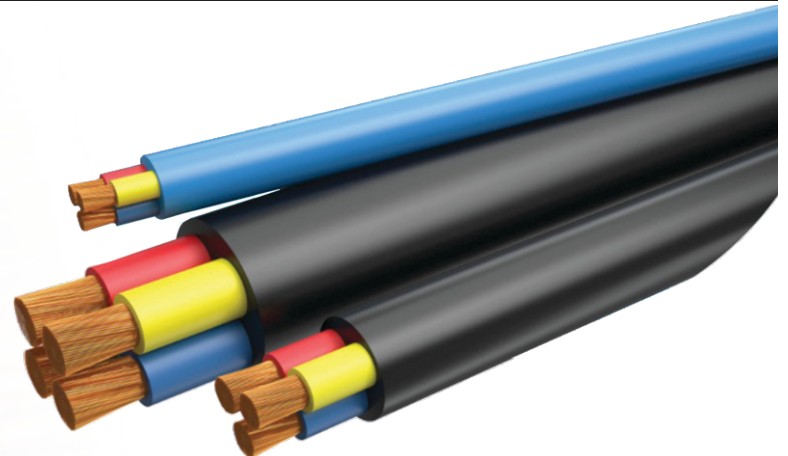
As per IEC 60227 - 3C- Blue, Brown, Black or Yellow/Green, 4C- Blue, Brown, Black or Yellow/Green

As per IS 694 : 2010 - 3 C- Red, Yellow and Blue, 4C - Red, Yellow, Blue, and Green

Application

Ideal For Irrigation Pumps, Drinking Water Supply Pump, Submersible Pumps, Motor Power Supply.

Conductor		Insulation		Total Thickness of Double Sheath and Diameter			Conductor Resistance at 20°C (max)	Current Rating At Ambient Temperature
Size of Cable	No. of Wire /Size of Wire	Thickness	Core OD	Sheath Thickness (Nominal)	3 Core Outer Diameter	4 Core Outer Diameter		
Sq.mm	Nos.mm	mm	mm	mm	mm	mm	Ω/km.	Amps.
1.5	22/0.30	0.60	2.90	1.20	9.50	10.30	12.1	14
2.5	36/0.30	0.70	3.50	1.40	11.50	13.0	7.41	18
4.0	56/0.30	0.80	4.0	1.40	14.0	14.80	4.95	26
6.0	84/0.30	0.80	5.0	1.60	15.50	16.0	3.30	31
10.0	140/0.30	1.0	6.0	2.0	19.0	20.20	1.91	52
16.0	224/0.30	1.0	7.30	2.0	21.50	23.50	1.21	70
25.0	350/0.30	1.2	9.50	2.30	26.0	28.0	0.780	88
35.0	490/0.30	1.2	11.0	2.50	29.0	31.50	0.554	112
50.0	700/0.30	1.4	13.0	2.80	34.0	37.0	0.386	146
70.0	980/0.30	1.4	15.0	3.10	38.0	42.2	0.272	190
95.0	1330/0.30	1.6	18.0	4.0	44.50	48.8	0.206	225



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National Award Wining Company

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