levit®

CE


AN ISO 9001 CERTIFIED COMPANY

## We Provide Quality Wires and Cables Worldwide.

FLEXIBLE WIRES | INDUSTRIAL CABLES | SUBMERSIBLE FLAT CABLES

## COMPANY PROFILE

**levit**® is a registered trade mark of Selva Electrical Industries Pvt Ltd. Selva Electrical Industries Pvt Ltd was established with a humble beginning to manufacture cables and wires. Our aim is to supply good quality products without any compromise. Our products will be of international quality and will last for long time. We want to be a trusted brand and wish to maintain the quality of our product. Raw materials like PVC Insulation and sheathing materials are sourced from the right suppliers and further tested in our laboratory for consistency. Copper used in our cables are only in EC grade. Copper rods are purchased from manufacturers, and drawn to our required sizes annealed, tested in our laboratory and then used for manufacture.

The Products are manufactured as per International standard / Indian standards to meet the cabling needs of construction, defence, transport and other Industrial project requirements. Our product range includes EC grade Copper rods and wires, EC grade Aluminium rods and wire, bare overhead conductor, low voltage cables used for Commercial and Residential buildings. We test and inspect raw materials and finished product at each stage of manufacture. Sample tests are carried out at regular intervals to conform the product quality.

## VISION

- To Manufacture and Supply cable and wires with international standards and quality
- To be a trusted product for all our customers
- To provide reliable, best quality product at affordable prices

## MISSION

- Consistent supply & quality products without any compromise
- Support dealers and customers
- Customer centric
- Continuous innovation in manufacturing
- To be a reliable manufacturer of cables and wires

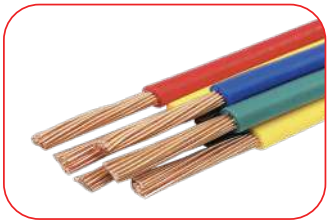
# FLEXIBLE WIRE SINGLE CORE - FLAME RETARDANT (FR)

## BUILDING WIRES UPTO 1100V

- Standards : Conforms to IS 694, BS6004, IEC 60227, IS 8130, IS 5831
- Conductor : EC grade flexible Copper class 5, Conforms to IEC 60228 IS 8130
- Insulation : PVC + FR Type Insulation Compound with High Insulation and Resistance Value
- Colour : Red, Blue, Yellow, Black, Yellow / Green
- Application : Buildings, Commercial Complexes, Factories, Residential Buildings
- Packing : 90m in Standard Carton Boxes, 180m in project Packing in Shrink Wrapping / Poly Wrap Packing

## SALIENT FEATURES

- Long Lasting
- Excellent resistance to moisture, abrasion, grease and oil
- Better flame Retardant property
- High temperature resistant insulation
- Higher current carrying capacity
- Fine Copper Wires





| Flexible Wire (Flame Retardant) 90 Meters - Single Core | | | | |
|---|---|---|---|---|
| Multi strand single core unsheathed flexible cables with bright annealed electrolytic copper conductor for voltage grade upto 1100 volts. | | | | |
| **Conductor Area (Sq. mm)** | **AMPS** | **Nos. & Dia. of Wire** | **PVC Thickness** | **Maximum overall Dia.** |
| 0.50 sq. mm. | 5 | 16/0.20 | 0.60 | 2.60 |
| 0.75 sq. mm. | 8 | 24/0.20 | 0.60 | 2.80 |
| 1.00 sq. mm. | 13 | 32/0.20 | 0.60 | 3.0 |
| 1.50 sq. mm. | 17 | 30/0.25 | 0.70 | 3.40 |
| 2.50 sq. mm. | 24 | 50/0.25 | 0.80 | 4.10 |
| 4.00 sq. mm. | 30 | 56/0.30 | 0.80 | 4.80 |
| 6.00 sq. mm. | 38 | 84/0.30 | 0.80 | 5.30 |
| 10.00 sq. mm. | 52 | 80/0.40 | 1.00 | 7.00 |
| 16.00 sq. mm. | 70 | 126/0.40 | 1.00 | 8.10 |
| 25.00 sq. mm. | 88 | 196/0.40 | 1.20 | 10.20 |

FR Properties - Limited oxygen Index Test IS10810-58 > 29% / Limited Temperature Index Test Rs10810-65 > 250%

# PVC SINGLE CORE FLEXIBLE CABLES 600 / 1100 VOLTS - (HRFR)




## HRFR - HEAT RESISTANT FLAME RETARDANT

## SALIENT FEATURES

- Standards : Generally conforms to BS 6231
- Conductor : EC grade Copper class 5 Conforms to IEC 60228, IEC60228 IS 8130
- Insulation : PVC- HRFR Type Insulation compound with High Insulation and Resistance value
- Colour : Red, Yellow, Blue, Black, Brown, Grey, White and Yellow Green
- Application : Power distribution / Control panels, Buildings and Industries
- Temperature range : 105°C

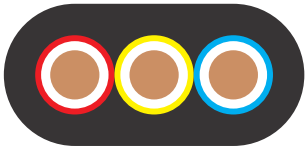
**Flexible Wire (Heat Resistant Flame Retardant) 90 Meters - Single Core**

Multi strand single core unsheathed flexible cables with bright annealed electrolytic copper conductor for voltage grade upto 1100 volts.

| Conductor Area (Sq. mm) | AMPS | Nos. & Dia. of Wire | PVC Thickness | Maximum overall Dia. |
|---|---|---|---|---|
| 0.50 sq. mm. | 5 | 16/0.20 | 0.60 | 2.60 |
| 0.75 sq. mm. | 9 | 24/0.20 | 0.60 | 2.80 |
| 1.00 sq. mm. | 15 | 32/0.20 | 0.60 | 3.0 |
| 1.50 sq. mm. | 19 | 30/0.25 | 0.70 | 3.40 |
| 2.50 sq. mm. | 25 | 50/0.25 | 0.80 | 4.10 |
| 4.00 sq. mm. | 32 | 56/0.30 | 0.80 | 4.80 |
| 6.00 sq. mm. | 43 | 84/0.30 | 0.80 | 5.30 |
| 10.00 sq. mm. | 59 | 80/0.40 | 1.00 | 7.00 |
| 16.00 sq. mm. | 79 | 126/0.40 | 1.00 | 8.10 |
| 25.00 sq. mm. | 93 | 196/0.40 | 1.20 | 10.20 |

# PVC SUBMERSIBLE 3 CORE FLAT CABLES (1100 VOLTS)

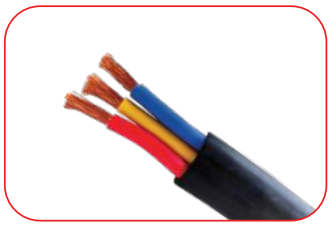
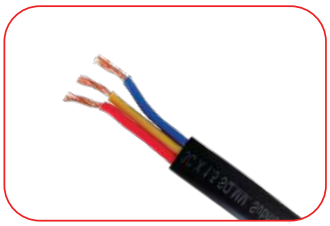
## SUBMERSIBLE PUMP CABLES



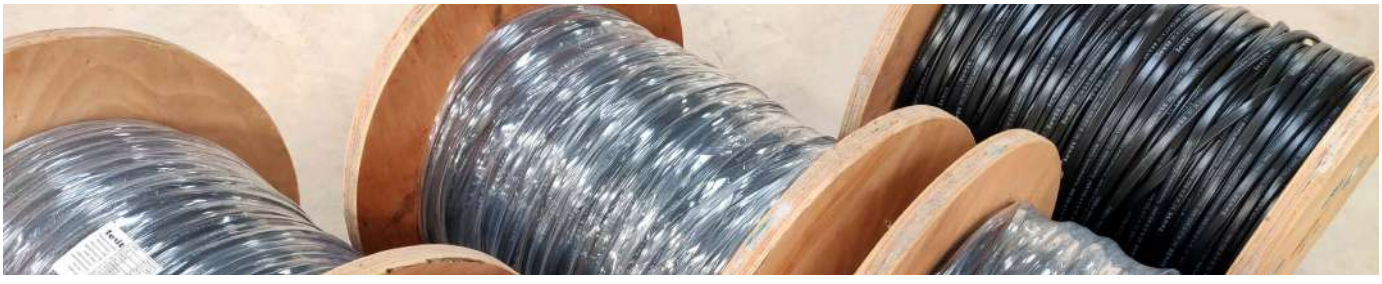
- Standards : IS 694
- Copper : EC grade flexible Copper Conforms to BS694, IS8131, IEC60228
- Sheath : PVC
- Insulation : PVC
- Colour : Black or Blue
- Application : For Submersible Pump Cables
- Packing : 90m, 100m, 200m, 300m in Coils 500m and 1000m in Wooden Reels

## SALIENT FEATURES

- Only EC Grade Copper Material
- Good Insulation Properties
- Long Lasting
- Operating Temp 15°c to 80°c
- Excellent Mechanical and Electrical Properties
- Resistant to Moisture, Abrasion, Grease and Oil


| PVC 3 Core Flat Cable For Submersible Pumps (1100 Volts) | | | | |
|---|---|---|---|---|
| Conductor Area (Sq. mm) | AMPS | Nos. & Dia. of Wire | Height (mm) | Width (mm) |
| 1.50 sq. mm. | 14 | 30/0.25 | 5.60 | 12.00 |
| 2.50 sq. mm. | 18 | 50/0.25 | 6.20 | 13.00 |
| 4.00 sq. mm. | 26 | 56/0.30 | 7.10 | 15.30 |
| 6.00 sq. mm. | 31 | 84/0.30 | 8.40 | 19.20 |



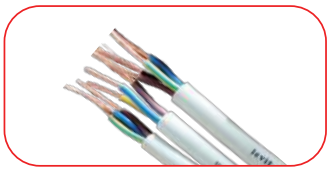
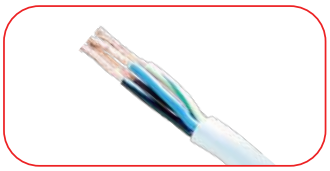
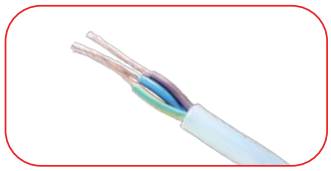
# INDUSTRIAL FLEXIBLE MULTI CORE ROUND CABLES

## 2 CORE, 3 CORE AND 4 CORE

- Standards : Conform to IS 694
- Copper : EC grade flexible Copper
- Insulation : PVC
- Sheathing : PVC
- Colour : White and Black
- Application : Industrial Lighting, Power Wiring to Appliances, DC Power, Wiring for Machinery
- Packing : 90m, 100m in Coils, 500m, 1000m, 2000m in Wooden Reels

## SALIENT FEATURES

- Heat Resistant and Stable Insulation
- Higher Current Carrying Capacity
- Flexible
- Operating Temp : -15°c to 70°c, 90°c, 105°c
- Resistant to Moisture, Abrasion, Grease and Oil


| Industrial Flexible Round Cable - 2 Core & 3 Core | | | | |
|---|---|---|---|---|
| **2 Core** | **3 Core** | **Conductor Area (Sq. mm)** | **Current Rating AMPS** | **Nos. & Dia. of Wire** |
| .5 sq. mm. | .5 sq. mm. | 0.50 sq. mm. | 5 | 16/0.20 |
| .75 sq. mm. | .75 sq. mm. | 0.75 sq. mm. | 7 | 24/0.20 |
| 1 sq. mm. | 1 sq. mm. | 1.00 sq. mm. | 11 | 32/0.20 |
| 1.5 sq. mm. | 1.5 sq. mm. | 1.50 sq. mm. | 15 | 30/0.25 |
| 2.5 sq. mm. | 2.5 sq. mm. | 2.50 sq. mm. | 20 | 50/0.25 |
| 4 sq. mm. | 4 sq. mm. | 4.00 sq. mm. | 30 | 56/0.30 |
| 6 sq. mm. | 6 sq. mm. | 6.00 sq. mm. | 42 | 84/0.30 |
| 10 sq. mm. | - | 10.00 sq. mm. | 55 | 80/0.40 |

| Industrial Flexible Round Cable - 4 Core | | |
|---|---|---|
| Conductor Area (Sq. mm) | Current Rating AMPS | Nos. & Dia. of Wire |
| 0.50 sq. mm. | 5 | 16/0.20 |
| 0.75 sq. mm. | 7 | 24/0.20 |
| 1.00 sq. mm. | 11 | 32/0.20 |
| 1.50 sq. mm. | 15 | 30/0.25 |
| 2.50 sq. mm. | 20 | 50/0.25 |
| 4.00 sq. mm. | 30 | 56/0.30 |
| 6.00 sq. mm. | 42 | 84/0.30 |

## CONDUCTOR SHORT CIRCUIT RATINGS

Short circuit rating of copper conductor shall be calculated using following formula:

Short circuit current $I = kA/\sqrt{t}$

Where,

k = 0.115

A = Cross sectional Area of conductor

t = Duration in seconds

e.g. Short circuit rating of 300mm$^2$ Cu conductor for 1 second. $I = 0.115 \times 300 / 1$

$= 34.5$ kA / sec .

The values of short circuit ratings derived from above formula based on the PVC insulated cable being fully loaded at the start of the short circuit conductor temperature of 70°C and final conductor temperature of 160°C.

## WIRING CABLE INSTALLATION

Wiring cables should be installed in accordance with IEE Wiring Regulations, or local installation regulations.

Minimum internal radius at bends:

| CABLE DIAMETER | Minimum internal radius |
|---|---|
| Up to 10mm | 3 x cable diameter |
| Exceeding 10mm but less than 25mm | 4 x cable diameter |
| Exceeding 25mm | 6 x cable diameter |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