



METER AND SWITCHGEAR CATALOGUE



Single Phase Electronic Energy Meter Counter Type & LCD Type

Features

1. Totally tamper proof design & construction.
2. Accuracy better than class 1.
3. Flame retardant and High impact Polycarbonate case.
4. Complies with the requirement of IS13779.
5. Available in both ICd stepper motor type display model.
6. Required no frequent calibration like conventional meter.
7. Meter operates even under very low loads.
8. True RMS Voltage, current & Power measurements.

Type :	Ref. Standard IS 13779 / 1999
Rated voltage : 240	Rated Current : 2.5 - 10A / 5 - 20A / 5 - 30A
Power consumption <8 VA	Accuracy class : 1.0



Three Phase Electronic Energy Meter Counter Type & LCD Type

Features

1. Accurate measurement of Power
2. High Accuracy: Class 1.0
3. High Overload capacity: 6 times of basic current
4. SMT and re-flow technology adopted, Immune to various disturbances.
5. High reliability.

Type :	Ref. Standard IS 13779 / 1999
Rated voltage : 240 X 3 V	Rated Current : 10-40A / 10 - 60A / -/5
Power consumption <8 VA	Accuracy class : 1.0

Multifunction Electronic Energy Meter

Features

1. High quality material used and tamper proof design.
2. Precise measurement of forward spare reverse power & maximum demand
3. Precise measurement of voltage and current.
4. Items and sequence in display can be customized.
5. Last six months maximum demand can be stored in meter memory.
6. Tamper and fraud detection and visual annunciation through LCD.
7. Metrology indication through LCD for easy calibration.
8. Digital Technology ensures reliability and accuracy even under extreme condition of temperature and humidity.
9. Records kept and displayed in terms of active energy, max demand with date and time

Type : Accuracy class : 1.0
Rated voltage : 240V Rated Current : 2.5 - 10A / 5 - 20A / 5 - 30A
Power con

- **Mfd By : Sanjay Electricals Pvt Ltd**
- **Customer care number: 9073120120**
- **Address: 18, Rabindra Sarani,
2nd Floor, Kol: 700001**
- **Email: info@jivah.com**



WINDING

Winding elements are produced in air conditioned, dust free humidity controlled winding room. These capacitors are manufactured out of trilayered metallized polypropylene film with heavy/reinforced edges; to provide excellent bonding between the electrode and end spray. Heavy edge has high current carrying capacity and withstands electromechanical stresses caused by

VACUUM DRYING & OIL IMPREGNATION

The assembled elements undergo vacuum impregnation. Non Toxic, Non-hazardous, non-flammable, non-PCB, impregnate is used for impregnating.

VACUUM OIL FILLING

Capacitors are impregnated in vacuum tanks at controlled temperature in the impregnating chamber and the oil automatically gets filled in the capacitor leaving no air space within the container to ensure better performance and longer life.

TESTING LABORATORY

Testing facilities for conducting all routine tests as per relevant BIS specifications are available. Jimcap has installed a fully automatic testing system to test capacitance and tan delta. All these tests are carried through an automated process thereby eliminating human error and achieving "0" defect product. In addition, the following types of tests are carried out at our works:

Test for capacitor losses.

Thermal stability test.

- Endurance test.

SELF HEALING

- When a breakdown occurs at a weak point in the dielectric, an arc is struck between two adjacent metal coatings. The metal coating in the immediate vicinity of the puncture vaporizes very quickly and, in doing so, extends the length of the arc. Both in the impregnating agent and a tiny part of dielectric also decompose in the arc and a zone of high gas pressure is formed, of the coating thus preventing condensation in the immediate vicinity of the puncture. This rise in pressure and the rapid increase in the length of the arc cause fast de-ionisation at the point of generally interrupted within 5-10 microseconds. Apart from a small puncture no other damage occurs to the dielectric whatsoever, and owing to the metal free zones which form in the immediate vicinity of the puncture, the insulation

TESTING LABORATORY

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Washing Machine Capacitor



Fan Capacitors



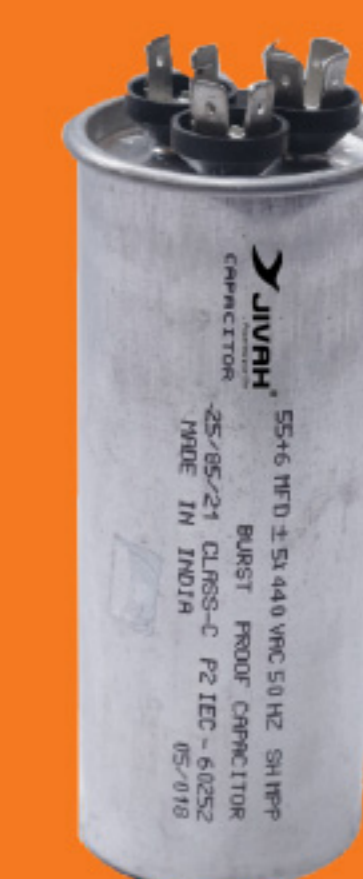
Motor Run Capacitors



Lighting & Fixtures Capacitors



Motor Start Capacitors



Air Conditioners Capacitors

Sanjay Electricals Pvt Ltd in the brand name JIVAH Introduces high quality wires and cables for domestic, agriculture, communication and industrial applications. The wire and cable range is manufactured as per the latest national and international standards using best raw materials, state of the art machinery and tools in a modernized plant at Delhi (INDIA).



Electrolytic Grade Copper having 99.99% purity & maximum conductivity to ensure minimum power losses & maximum safety of our Equipments.



Uniformly bunched copper wires of uniform diameter that makes stripping & crimping of wires easier & minimizes losses and thus increases efficiency.



Indigenously developed PVC compound formulated from finest ingredient is produced in house. High thermal stability & insulation resistance makes it suitable for use in Indian environmental conditions.

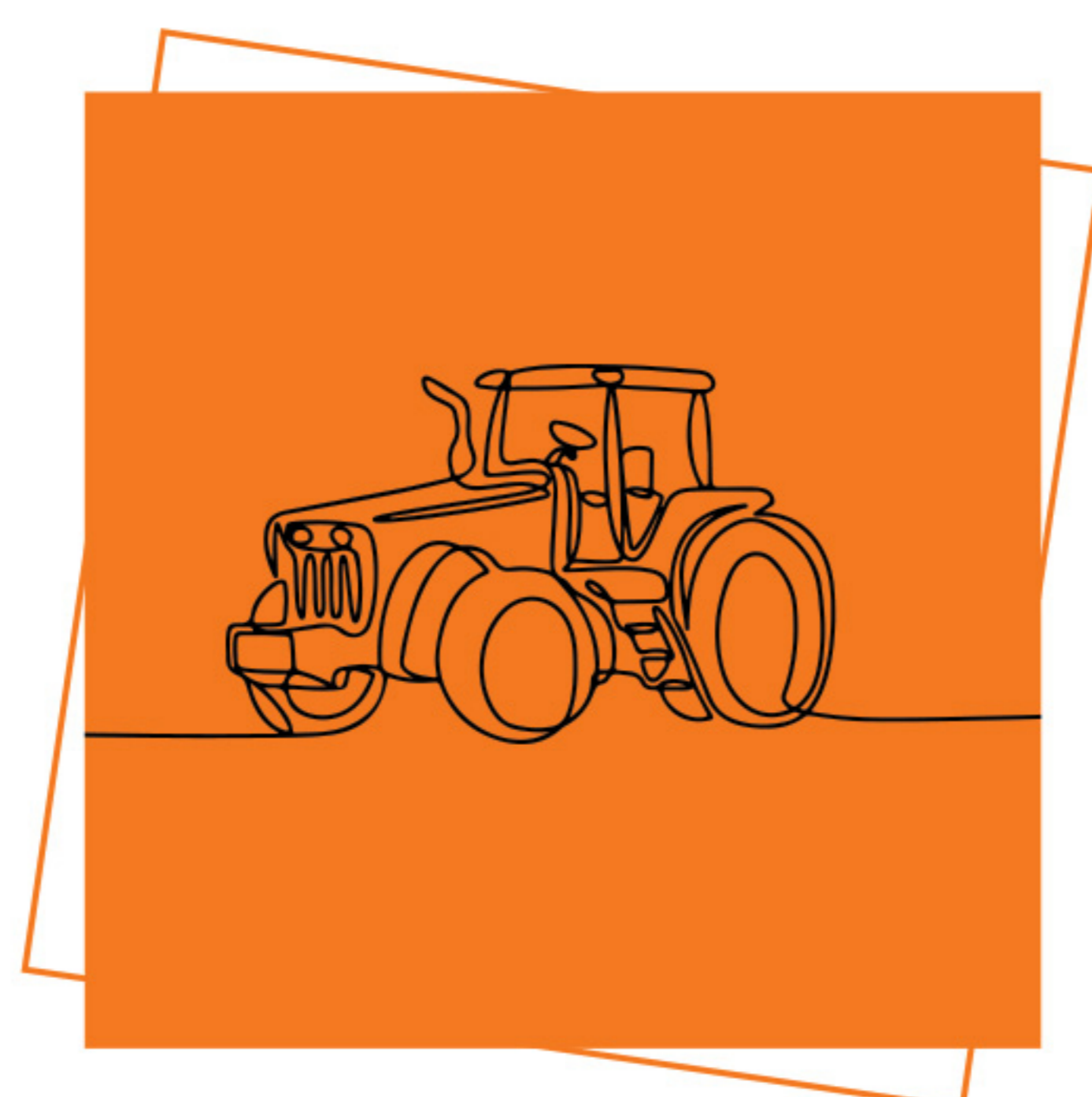


Double insulation, with insulation from virgin PVC & coated with ultra thin colour layer. This feature enhances safety & ensures proper colour identification of wires & Cables.

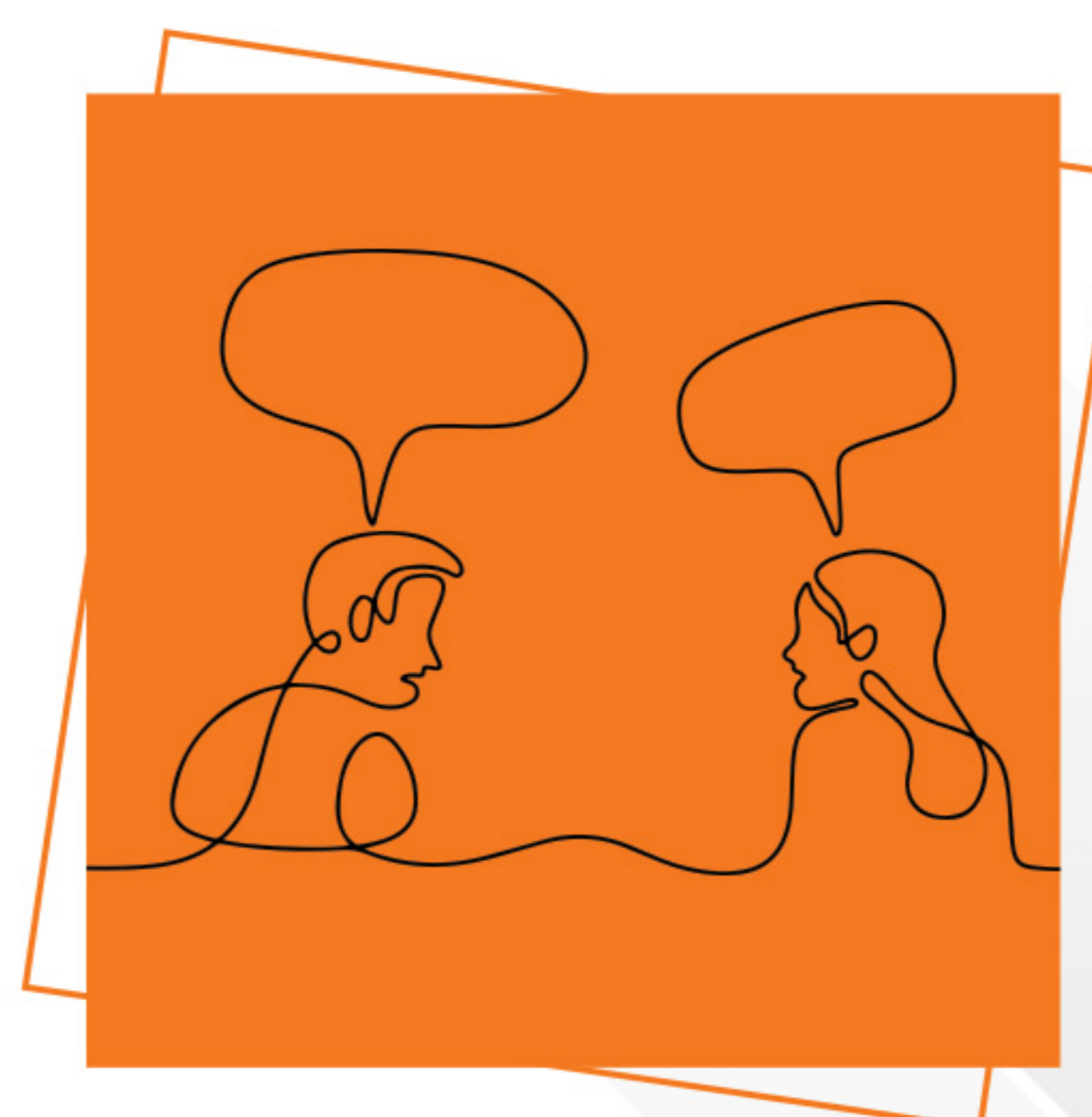
HOUSEHOLD



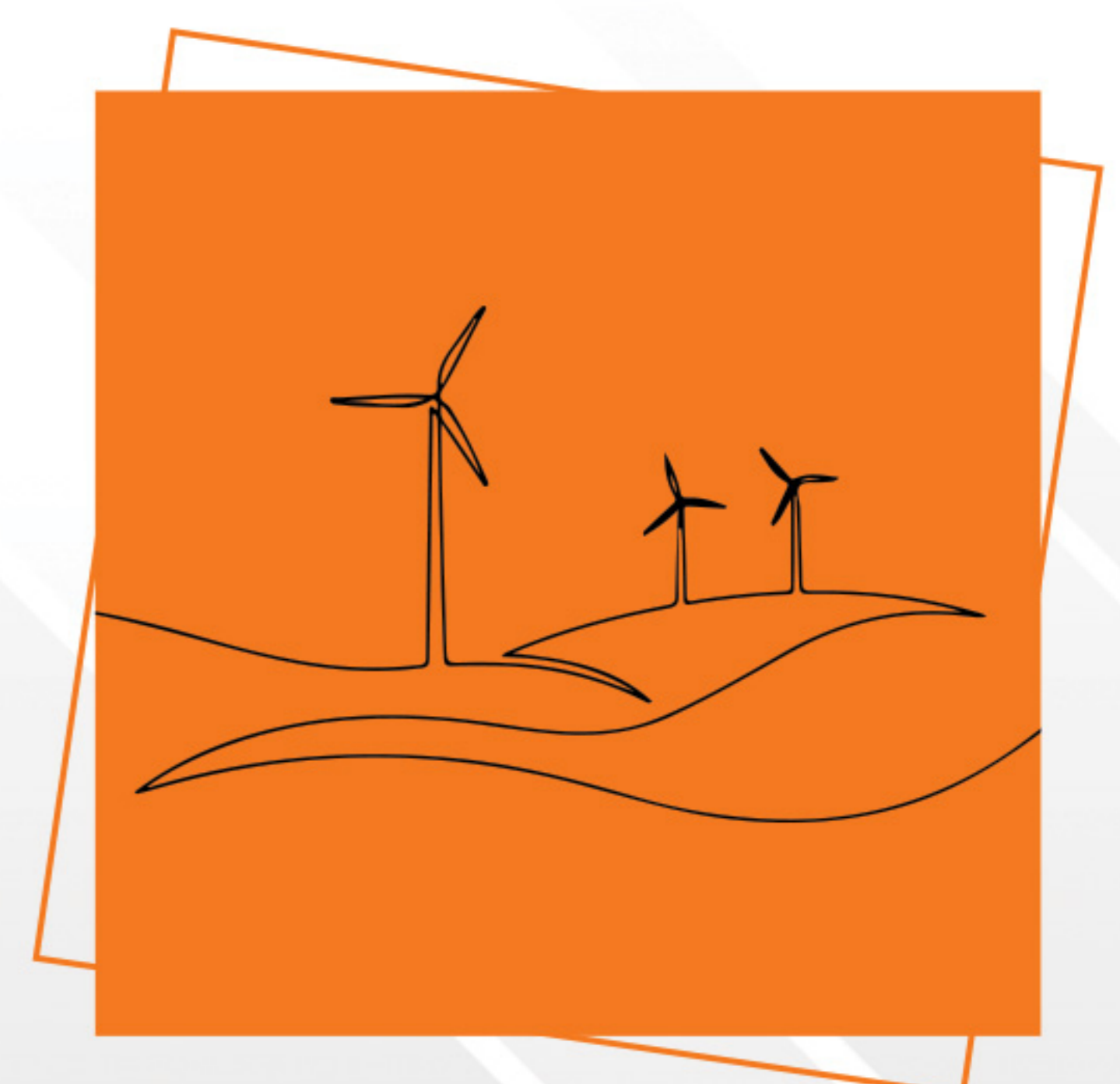
AGRICULTURE



COMMUNICATION



INDUSTRIAL



SINGLE CORE FLAME RETARDANT CABLE (FR)

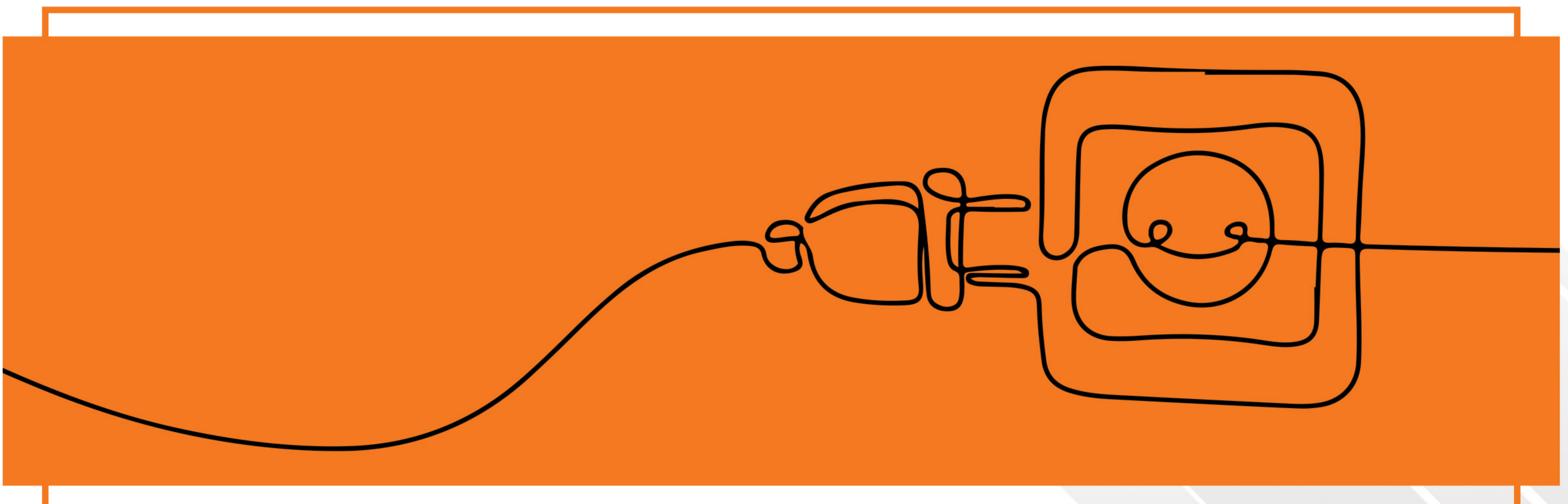
Jivah FR wire is a high quality single core twin insulated unsheathed cable with copper conductor in voltage grade 1100V conforming to IS : 649, ICE 60227 and Bs6004.

The 1100V grade multi strand bright electrolyte annealed copper is bunched together and insulated with a flame retardant (FR) PVC compounded to achieve higher oxygen and temperature index which helps in restricting the spread of fire. In addition, high insulation resistance and dielectric strength helps in delivering safety.



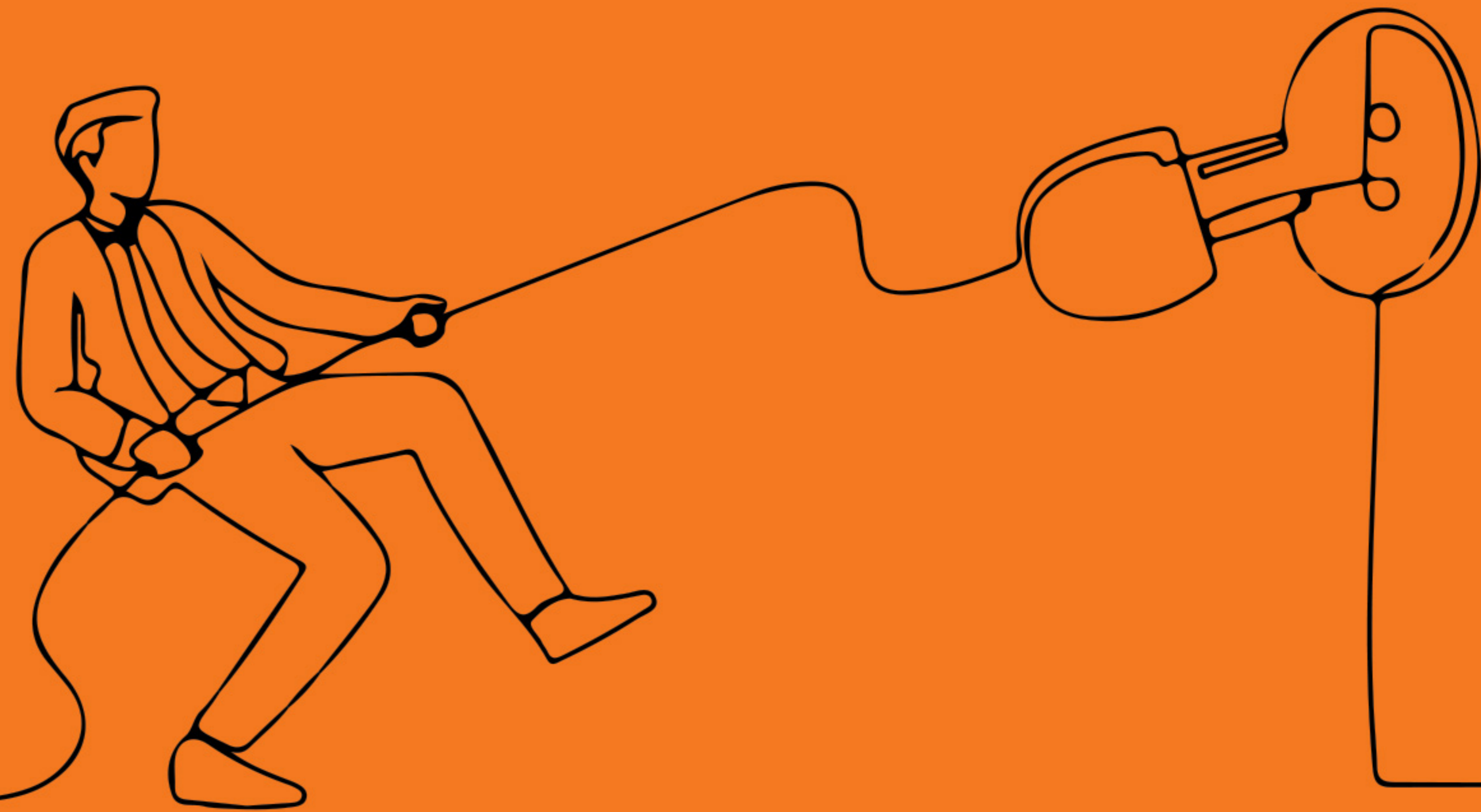
Nominal Cross Sectional area of conductor Sq.mm	Number/ Nom. Dia. of Cond. strands mm	Thickness of Insulation (Nom) mm	Approx Overall Diameter mm	Current Carrying Capacity 2 Cables Single Phase Unenclosed clipped directly to a surface or on cable trays Amps	Max. Conductor Resistance Per KM at 200 C Ohms
0.5	16/0.2	0.6	2.2	5	39.00
0.75	24/0.2	0.7	2.5	7	26.00
1.0	14/0.3	0.7	2.8	12	18.10
1.5	22/0.3	0.7	3.1	16	12.10
2.5	36/0.3	0.8	3.8	22	7.41
4.0	56/0.3	0.8	4.4	29	4.95
6.0	84/0.3	0.8	5.0	37	3.30

* Available in 90 meter lengths in carton packaging and in 180 meters project packaging.



MULTICORE FLEXIBLE WIRE

Jivah Multicore Wire is a high quality multi core PVC insulated & PVC Sheathed cable with copper conductor in voltage grade 1100V conforming conductor in voltage grade 1100V conforming IS:694, ICE 60227 & Bs6500. These Wires are bunched together with flexible copper & Coated with type 'A' PVC insulation . Colour coded, core laid-up and overall sheathed with ST-1 PVC compound for long life and high performance.



Nominal Area in Sq. mm	No. of Strands/ Nominal Dia	Max. DC resistance Ohm/km at 200c	Nominal Insulation thickness mm	Core dia. mm	Nominal Sheath thickness in mm			Nominal Sheath thickness in mm			Current Rating
					2 core	3 core	4 core	2 core	3 core	4 core	
0.50	16/0.2	39.00	0.60	2.20	0.90	0.90	0.90	6.20	6.60	7.20	4
0.75	24/0.2	26.00	0.60	2.50	0.90	0.90	0.90	6.80	7.20	7.90	7
1.00	32/0.2	19.50	0.60	2.60	0.90	0.90	0.90	7.00	7.50	8.10	12
1.50	30/0.25	13.30	0.60	2.90	0.90	0.90	1.00	7.60	8.10	9.00	16
2.50	50/0.25	7.98	0.70	3.50	1.00	1.00	1.00	9.00	9.60	10.50	22
4.00	56/0.3	4.95	0.80	4.80	1.00	1.00	1.00	10.60	11.30	12.40	29
6	84/0.3	3.30	0.80	5.10	1.15	1.15	1.15	12.60	13.40	15.20	37
10	140/0.3	1.91	1.00	6.60	1.40	1.40	1.40	16.00	17.00	18.80	51
16	126/0.4	1.21	1.00	8.00	1.40	1.40	1.40	18.80	20.10	22.10	68



THREE CORE FLAT SUBMERSIBLE CABLE

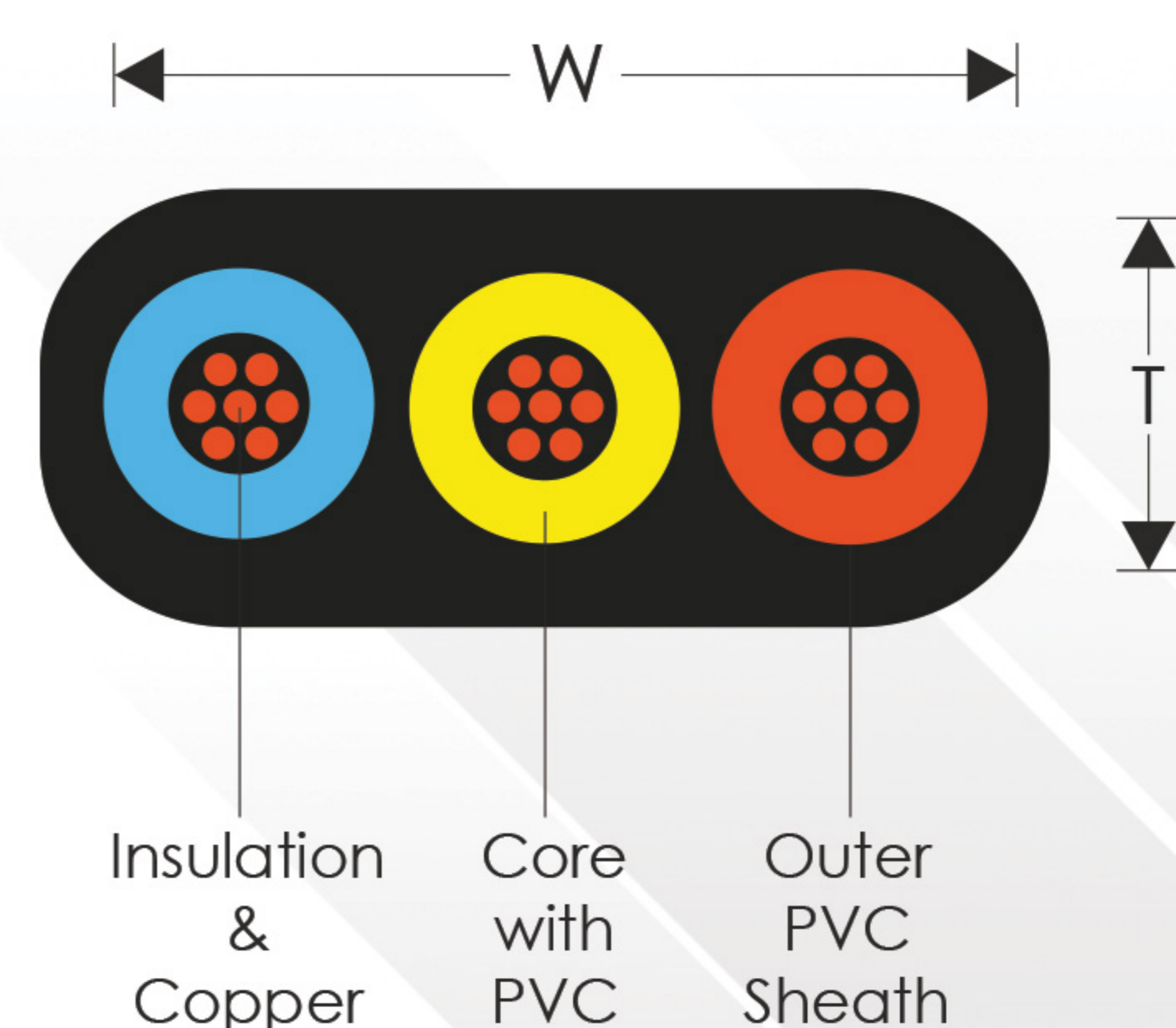
Three Core Flat Cables consist of 3 insulated cores laid side by side and extruded over it using black sheathing grade PVC. These cables are flat in nature & therefore are called Flat Cables. Cores are not laid up in this type and are parallel to each other. Three core flat cables are ideally suited for heavy duty applications in industries and submersible pumps, in which the sheathing must withstand abrasion and prevent ingress of water inside. The sheathing is made of special grade sheathing PVC which gives the required finish and strength.



Nominal Area of Conductor	Number/ Nom Dia. of Wire	Thickness of PVC Insulation (Nom)	PVC Outer Sheath (Nom)	Maximum Resistance Per Km. at 200C	Approx. Overall Dimension (W x T)	Current carrying capacity at 400 C
Sq.mm	mm	mm	mm	Ohms	mm	Amps
1.5	22/.3	0.8	1.2	12.10	11.9 x 5.5	14
2.5	36/.3	0.9	1.2	7.41	13.8 x 6.1	18
4.0	56/.3	1.0	1.2	4.95	15.8 x 6.8	26
6.0	84/.3	1.0	1.2	3.30	17.3 x 7.3	31
10.0	80/.4	1.0	1.4	1.91	20.5 x 8.7	42
16.0	126/.4	1.0	1.4	1.21	23.65 x 9.75	57
25.0	196/.4	1.2	2.0	0.78	30 x 12.65	72

* Note: Core Colours - Red, Yellow, Blue.

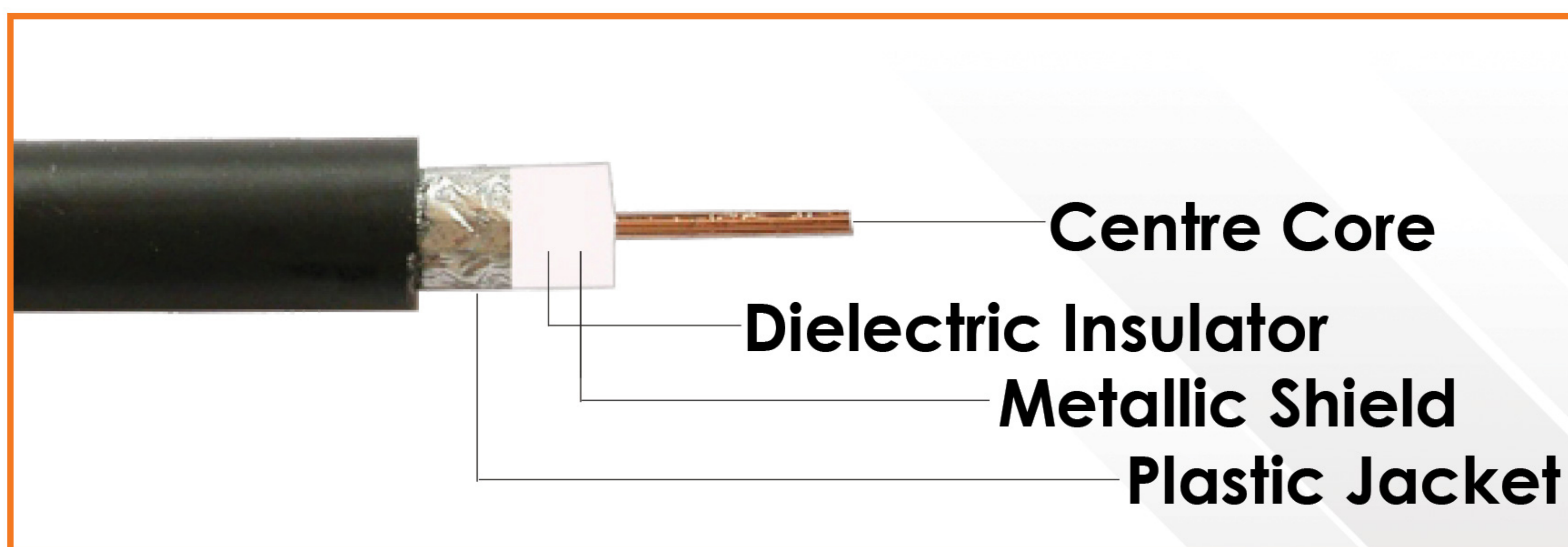
Sheath Colour - Black



CO-AXIAL CABLE

Jivah Co-Axial Cable is made by using specially formulated UV resistant PVC compound. PVC used for outersheath ensure low attenuation and uniform impedances resulting in better reception due to minimum loss in signal quality.

CONSTRUCTION PARAMETERS	CABLE TYPE		
	RG 11 F	RG 6 F	RG 59 F
CENTER CONDUCTOR Nom. Dia. (mm)	Solid bare copper 1.63	Solid bare copper 1.02	Solid bare copper 0.80
DIELECTRIC Nom. Dia. (mm)	Foam PE 7.11	Foam PE 4.57	Foam PE 3.55
OUTER CONDUCTOR 1st Shield	Al-Foil Bonded	Al-Foil Bonded	Al-Foil Bonded
2nd Shield	Al-Alloy Braiding	Al-Alloy Braiding	Al-Alloy Braiding
Min. Coverage	60	60	60
Flooding Compound	Jelly	Jelly	Jelly
JACKET	PVC Black	PVC Black	PVC Black
Nom. Dia. (mm)	10.30	7.25	6.20
BENDING RADIUS (mm)	70	60	60



“Safety Comes With Quality”

JIVAH a brand of Sanjay Electricals Pvt Ltd is introducing a new category of switchgears, that offers enhanced quality & Adopting advanced technology & aesthetic designing helped JIVAH to emerge as a leading electrical brand. Wide range of JIVAH switchgears are available through our pan India dealer network.

Miniature Circuit Breaker (MCB)

Features

- „ Rated voltage (Ue)-240/415V AC, Rated Frequency(f)-50Hz.
- „ High insulation resistance of body more than 25000 M.
- „ Rated Breaking capacity 10000A & Energy Limit Class 3.
- „ Finger Touch Proof (IP20 Protection).
- „ Protection against Short Circuit & Over Load.
- „ Precise hammer action.
- „ Low power consumption, thus cost effective & energy saving.
- „ 15 Plates Arc Chute for effective arc quenching.
- „ Trip free mechanism.

Range

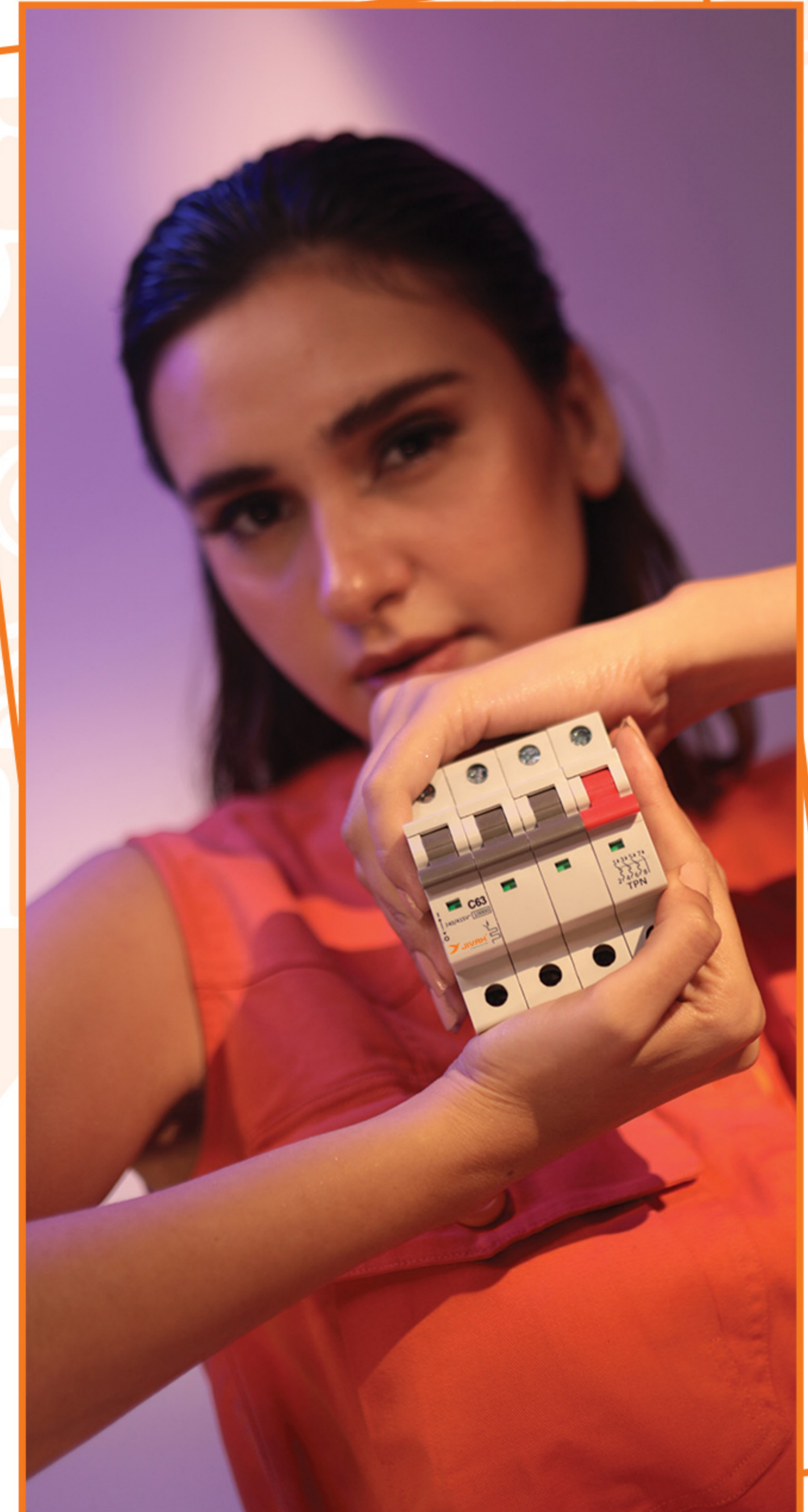
0.5A - 32A & 40A & 63A

Execution

Single Pole (1P), Single Pole & Neutral (1P+N), Double Pole (2P)
Three Pole (3P), Three Pole & Neutral (3P+N), Four Pole (4P)

Specification

IS / IEC 60898 - 1
IEC 60947 - 2 for Industrial Application



MCB Isolator

Features

- Rated voltage (Ue)-240/415V AC, Rated Frequency(f)-50Hz.
- Low Watt Loss.
- Longer Electrical Life.
- Value for Money.
- Low power consumption, thus cost effective & energy saving.
- Finger touch proof (IP20 Protection).

Range

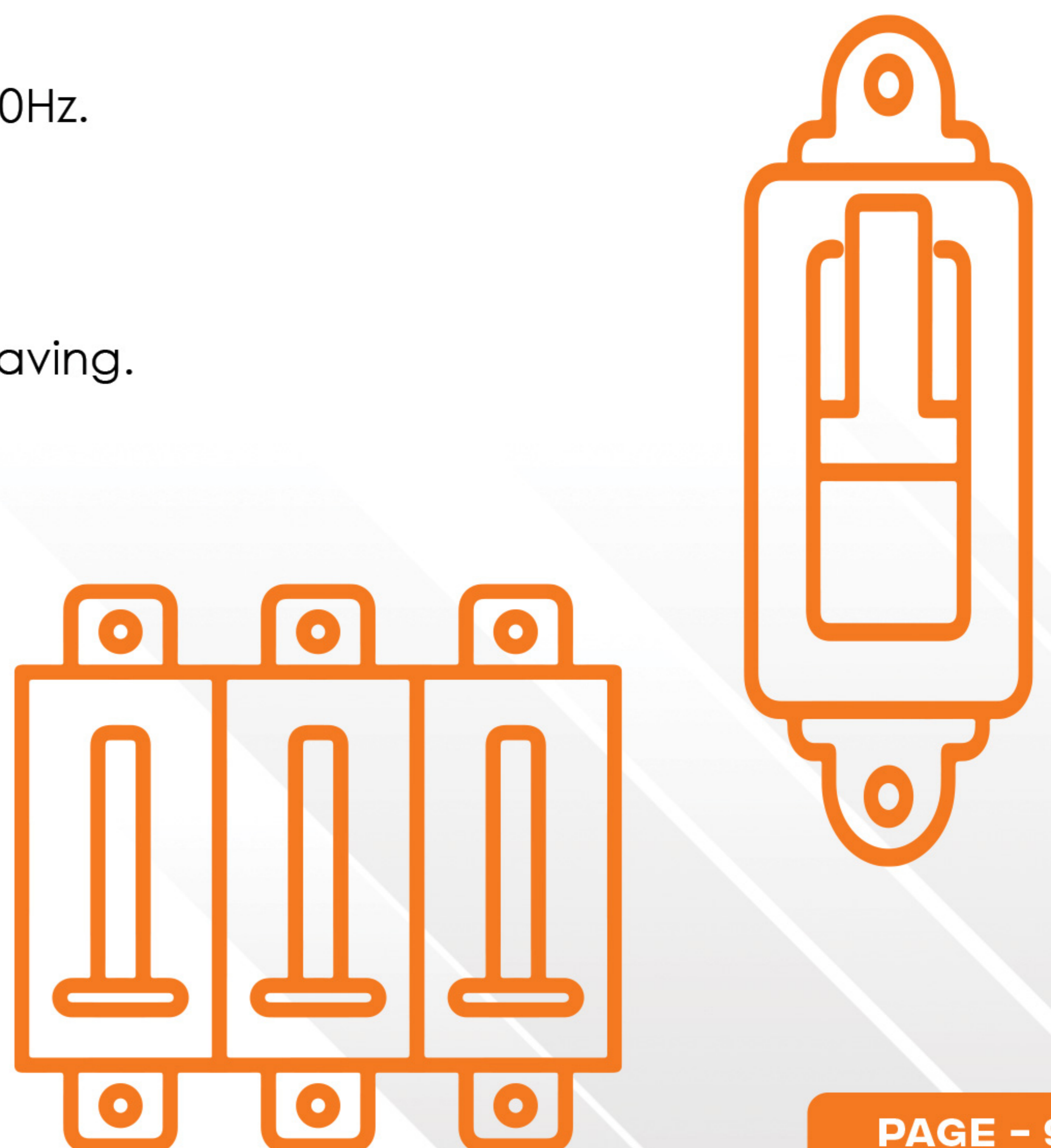
40A, 63A & 100A

Execution

Double Pole (2P)
Four Pole (4P)

Specification

IS / IEC 60947-3



“JIVAH Switchgear-Trust without Fear”

Made in Compliance with top-notch Standards, the Switchgears by JIVAH boasts of unique modular Construction elegant designing, Overload protection and Safety of the operating Personal above all. The all inclusive range of industrial Switchgears Comprises of MCCB, RCCB, Changeover Switches, Busbar Chambers & many more.

MCB Changeover Switch

Features

- Rated voltage (Ue)-240/415V AC, Rated Frequency(f)-50Hz.
- Compact construction.
- Doublebreak contacts.
- Can be mounted with other products viz MCBs, RCCBs, Isolator in distribution board.
- Front Operation with three stable positions I-O-II.
- Din Rail Mountain facility.

Range

25A & 40A

Execution

Double Pole (2P)

Four Pole (4P)

Specification

In accordance with IS / IEC 60947-3



(2 WAY & 4 WAY Center Off Changeover Switch)

Residual Current Circuit Breaker (RCCB)

Features

- Rated voltage (Ue)-240/415V AC, Rated Frequency(f)-50Hz.
- Protection against risk of direct & indirect electric shock and risk of fire.
- Simple and Robust operating mechanism.
- Dual termination for Bus Bar as well as cable connection.
- Test button for regular inspection.
- Positive contact indication.
- Highly sensitive, detects earth leakage current as low as 30mA less
- Made of fire retardant, anti tracking, non hygroscopic impact resistant material.
- Incorporates “Test” button for periodic checking.

Range

25A, 32A, 40A & 63A

Execution

Double Pole (2P), Four Pole (4P)

Sensitivity

30mA, 100mA & 300mA

Specification

IS 12640 Part 1 / IEC 61008-1 / EN 61008 - 1



Moulded Case Circuit Breaker (MCCB)

Features

- „ Breaking Capacity up to 85kA
- „ U_i 750V; U_{imp} ~ 8kV
- „ Utilization Category 'A'
- „ Positive Isolation
- „ Maintenance friendly
- „ True RMS Sensing-accurate and close Protection
- „ High repeat accuracy-reliably protection

Range

63A ~ 630A
Three Pole

Specification

IEC 60947-2



Switch Fuse Unit

Features

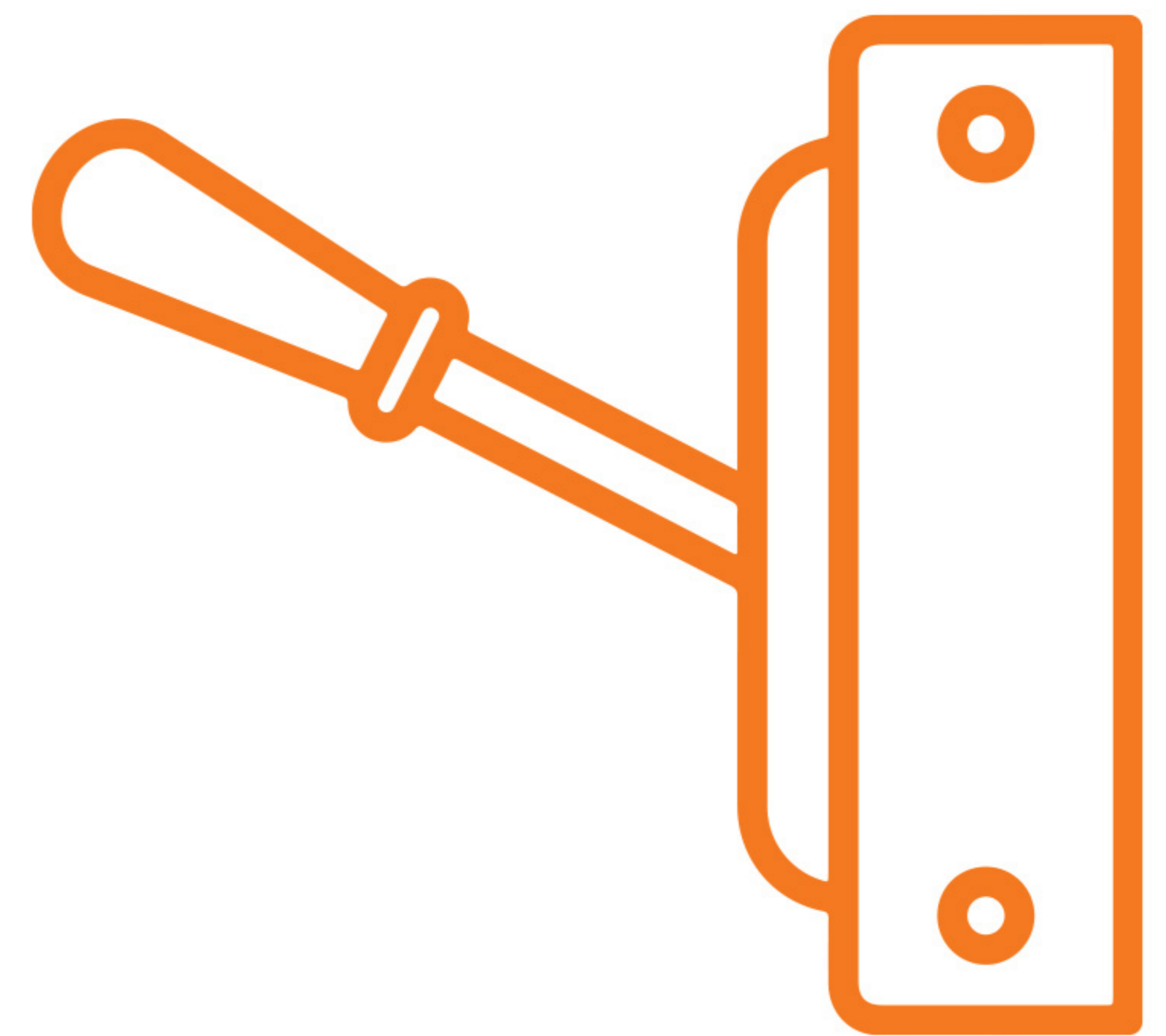
- „ Side Handle Operation
- „ Body made of CRCA Sheet Steel, duly phosphatised & powder painted
- „ Contact parts made of high conductivity electrolytic Copper/Brass with tin plating
- „ Suitable for Surface mounting
- „ Maintenance friendly

Range

16A , 240V in DP
32A, 63A, 100A, 200A, 300A, 400A & 500A in DP & TPN

Specification

IS 13947 / 1993
Cat. Of Utilisation : AC-22A



Bus Bar Chamber

Features

- „ Designed for safe, reliable & economical distribution of power
- „ Easy, flexible & time saving installation
- „ Can be wall mounted or floor mounted (using optional pedestal set)
- „ Shock proof design
- „ Sleek & Elegant look

Range

32A, 63A, 100A, 200A, 300A, 400A & 500A

Specification

Fully application oriented as per :
IS:8623/IEC 60439 (Panel sub assemblies)
IS:2147/IEC60529 (Degree for protection)



Home Safe

Features

- „ Appealing & Contemporary Aesthetics.
- „ Compact & Space saving design.
- „ Overload & Short Circuit Protection.
- „ Proven MCB mechanism for longer life.
- „ Easy to Operate & replace.
- „ Completely insulated design.
- „ Indication of Supply.

Range

Specification

Reference	: IEC: 60898: 2002, IS: 8828: 1996
Rated Current In	: 6A, 10A, 16A, 20A, 25A & 32A
Rated Voltage Un	: 240V AC
Rated Insulation Voltage	: 500V AC
Rated Frequency	: 50 Hz
No. of Poles	: DP
Rated Short Circuit Capacity	: 3kA
Degree of Protection	: IP 20
Line / Load terminals	: 6 mm



Changeover Switch

Features

- „ Constructed out of CRCA sheet steel, duly pre treated and powder coated to give lasting surface protection.
- „ Conventional side handle operated switches suitable for individual mounting for OFF LOAD Applications.
- „ Ample cabling space provided to terminate copper or aluminum cables with sufficient knock outs in detachable gland plates.
- „ Foolproof interlocking mechanism.
- „ Non-ferrous, silver plated fixed and moving contacts for high level contact efficiency. Made up of ETP Copper.
- „ True RMS Sensing-accurate and close Protection.
- „ High repeat accuracy-reliably protection.

Range

- 32A, 240V in DP version
- 32A, 400/415V in FP version

Specification

IS 13947-3 / IEC 947-3

Home Safe

Features

- „ Appealing & Contemporary Aesthetics.
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- „ Overload & Short Circuit Protection.
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- „ Indication of Supply.

Range

Specification

Reference	: IEC: 60898: 2002, IS: 8828: 1996
Rated Current In	: 6A, 10A, 16A, 20A, 25A & 32A
Rated Voltage Un	: 240V AC
Rated Insulation Voltage	: 500V AC
Rated Frequency	: 50 Hz
No. of Poles	: DP
Rated Short Circuit Capacity	: 3kA
Degree of Protection	: IP 20
Line / Load terminals	: 6 mm



Changeover Switch

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- „ High repeat accuracy-reliably protection.

Range

- 32A, 240V in DP version
- 32A, 400/415V in FP version

Specification

IS 13947-3 / IEC 947-3

On-Load Changeover Switch

Features

- „ Modular Design.
- „ Compact size.
- „ Easy maintenance.
- „ Quick make & break mechanism.
- „ High Electrical & Mechanical life.
- „ Load & line reversibility.
- „ Provision of phase seperators, add-on auxiliary switch.
- „ Door interlock and padlock facility.
- „ Silver plated current carrying parts.
- „ Bolt holders installed on terminals for easy cable / Bus part termination.
- „ Flexibility for termination of supply

Range

63A ~ 630A

Four Pole

Specification

IEC 60947-3

Plug & Socket

Features

- Designed for human safety.
- Robust construction.
- Outer casing made of non corroding die cast aluminum alloy
- Duly powder coated.
- Interior moulded of superior grade phenolic / polyester compound.
- The earth connection makes first & break last.
- Uniform contact pressure is maintained due to highly conductive and resilient of the sleeve contacts.

Range

Single Phase - 10A, 20A (2P+E) 250 V

Three Phase - 20A, 30A & 63A (3P+E+N) 440V

Specification

IEC 309-3





JIVAH[®]

Powering your life