manufactures, imports and markets switchgear components to the electrical switchgear industry in the UAE and other GCC and MENA countries.

As stockists & distributors, we maintain substantial inventories of:

- **Ammeters, Current Transformers, Voltmeters, Digital Energy Meters, Digital Multifunction Meters, Frequency Meters, Power Factor Meters, etc.**
- **Terminals, End plates/Covers, Shorting Links, Marking Labels**
- **Busbar supports, Busbar sleeves, Conical Insulators, Cylindrical Insulators, etc.**
- **Rotary Selector Switches, On-Off 3-position switches**
- **Brass Earth Bars, Tinned Copper Bushes, Hexagonal Spacers, Trunking, Rubber Grommets, Meter Glasses, Cable Lugs, Fork Lugs, Ring Lugs**
- **Instrument Cooling Fans, Exhaust Fans and Accessories, Louvers, Filters**
- **PVC Electrical Conduit Pipes, Switch boxes, Couplers, Junction Boxes, Flexible pipes, Male/Female Adaptors, Saddles, Flexible Pipes**
- **Flexible cables—single-core, for panel wiring**
- **Wiring Ducts/Trunking in all sizes, “RR” brand, made in UAE**

We are the sole distributors for Nippen products in the UAE, and also stock many other brands, including Elmex, Twinstar, Select, Jambo, Jainson, and Prestoplast. Jambo Industries, the owners of J-Lite and Jambo brands are our close associates and co-ordinate all our activities in India.

Our office and warehouse are located in Al Ghusais, within easy reach of both Sharjah and Dubai.
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- Earth Terminals
- Double Deck Terminals
- Stud Type Terminals
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- Disconnecting Terminals
- Lighting Pole Terminals
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- Isolators/Switching Disconnectors
- Thermal Overload Relays

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- Conical Insulators (DMC)
- Cylindrical Insulators (DMC)
- Hexagonal/Drum-type Insulators (DMC)
- Hexagonal Spacers / Copper Bushes
- PVC Heat Shrinkable Busbar Sleeves (Low Tension)
- Polyolefin Heat Shrinkable Sleeves (Low & High Tension)
**Product Finder**

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The NIPPEN Brand is well known in the field of Electrical and Electronics Measuring Instruments.

The manufacturer, Nippen Electrical Instruments Company, is an ISO 9001:2008 accredited organization. It stands out as a leader in the manufacture of analogue & digital instruments. The recent addition of micro-controller based instruments with cutting-edge technology has made NIPPEN an indisputable brand-leader in this sector.

We offer Nippen Current Transformers, Analogue Ammeters, Voltmeters, Frequency Meters, Power Factor meters, Power Factor Controller and Digital Ammeters, Voltmeters, Multifunction Meters, Energy Meters and Smartload Managers.
Digital Multifunction Meter (DT-108 with/without RS 485 Port)

Measures:
A, V, Hz, kW, PF, kVA, kWh, kVAh. Available with and without RS Port (Communication Port).

Features:
- Display: 4-Digit, 7-segment LED
- CT Operated (CT Primary: 0 – 9999 A)
- Input Range: 5A – 1A, 0 – 500 V
- Size: 96x96 mm & 96x96 mm DIN Case
- Accuracy: Class 1
- Low VA Burden
- Flush mounted, IP52 Front

Digital Energy Meters (EM 34L, EM 34D...)

- Operating Characteristics
  - Aux Supply: Self-powered
  - Voltage Input 50 – 500 V AC
  - Current Rating: 5 A or 1 A (optional)
  - CT Operated; CT ratio programmable, (CT Primary: 0 – 9999 A)
  - 96x96mm DIN Case
  - Reset and Password Protection
  - 8-Digit Backlight LED Display
  - RS 485 Port with MODBUS-RTU Protocol.

- Models:
  - EM34L: 3-phase/4-Wire, 3-phase/3-wire, 1-phase/2-wire
  - EM34D: 3-phase/3 Element Wire with DG Sensing, suitable for Dual Energy utility main.
  - EM11L – 1-phase/2-wire

Frequency Meters

- Available in 72x72 mm (Model SF 72) & 96x96mm (Model SF 96)
- Panel Mounting / Flush mounting
- Accuracy ± 1% (0.1 Hz)
- Range: 45-50-55 Hz
- Transducer Type
- True RMS
### Power Factor Controllers
- **Model JKW5 Series V5.0 Reactive Power Auto Compensation Controller.**
- Used for automatic regulation of capacitor compensation devices of low voltage distribution systems.
- **Display:** 4 Digit; LED, 7-segment LED
- **Measurement:** lag 0.001 – lead 0.001
- **220V/380V AC 50Hz; 0 – 5A AC**
- **Available in 12-step relay output**
- With two types of control models: Power Factor and Reactive Power.

### Current Transformers
Nippon provides a comprehensive range of Current Transformers for measuring applications, available in secondary current of 5A. Comply with BS7626/IEC185.

#### Models:

<table>
<thead>
<tr>
<th>Series</th>
<th>Busbar Size</th>
<th>Current Ratios</th>
</tr>
</thead>
<tbody>
<tr>
<td>301</td>
<td>30x10 mm</td>
<td>25/5A, 40/5A, 50/5A, 60/5A, 75/5A, 80/5A, 100/5A, 150/5A, 160/5A, 200/5A, 250/5A, 300/5A, 400/5A</td>
</tr>
<tr>
<td>401</td>
<td>40x10 mm</td>
<td>400/5A, 500/5A, 600/5A, 800/5A</td>
</tr>
<tr>
<td>601</td>
<td>60x10 mm</td>
<td>400/5A, 500/5A, 600/5A, 800/5A, 1000/5A, 1200/5A, 1250/5A, 1600/5A</td>
</tr>
<tr>
<td>801</td>
<td>80x10 mm</td>
<td>800/5A, 1000/5A, 1200/5A, 1600/5A, 2000/5A</td>
</tr>
<tr>
<td>1001</td>
<td>100x10 mm</td>
<td>1000/5A, 1200/5A, 1600/5A, 2000/5A, 2500/5A, 3200/5A</td>
</tr>
</tbody>
</table>

### Power Factor Meters
- **Sizes:** 72x72 (Model SPF 72) 96x96 (Model SPF 96)
- **Scale:** 0.5 LAG – UNITY – 0.5 LEAD
- **Accuracy:** 2 Degree, 230V AC/440V, 3 Phase 1 Element.

### Earth Leakage Relays and CBCT (ELR)
- The ELR unit consists essentially of 2 parts.
  - A) Basic Relay
  - B) Core Balance Current Transformer (CBCT)
- **Display:** Digital 3-Digit, 7-segment bright LED.
- Available in both DIN Rail, and Panel / Flush Mounting type
- **Test and Reset Function**
- **230V AC, 50-60Hz, VA Burden 3VA**
- **Leakage Current Range:** 0.03, 0.1, 0.3, 0.5, 10, 20, 30 A
- **CBCT Sizes (I.D):** 35 mm, 70 mm, 120 mm, and 210 mm
Under Voltage Relays (UVR)
Brands: Nippen, Selec, Veritek
- SELEC: Model 642VTR-3 / VERITEK: Model VIP5 102
- 380-415 Volt AC
- Supply: 3 & 4 wire 50/60Hz/1-Phase
- Trip Level: 25% of nominal voltage
- Time Range: 5-15 Minutes (Delay on time)

Maximum Demand Indicators (MDI)
- (Digital) Measurement of:
  - Maximum Demand (2-60Min)
  - Current: 3 Phase & Average
  - Voltage: L-N Line & Average
- Display: LED; 3 rows of 7-segment 14.2mm, 4-Digit display per row.
- CT Operated
- A,V, DMD in all phases can be viewed simultaneously.
- Selection of Auto-scroll / Manual Scroll / Fixed Screen.
- Optional: RS485 serial output port with standard Mod Bus RTU Protocol or relay output.
Elmex brand terminal blocks comply with the international specifications IEC-60947-7-1 and can be mounted on DIN rails. They have a modular design so that they can be installed side-by-side, simply by clipping on to form a uniform assembly on mounting DIN rails.

We offer Elmex Feed Through Terminals (KUT series), Earth Terminals (ET series), Double Decker Terminals, Stud Type Terminals, Fuse Terminals, Disconnecting Terminals, Lighting Pole Terminals (LPT Series), and accessories such as Endplates, Barrier Plates, Shorting Links, Marking Labels and End Stoppers.
Double Decker Terminals
Elmex multi-level terminals are the perfect solution where space is a constraint and high quality wiring is needed. The compact design of these terminals with 6 mm thickness allows double wiring density reducing the total number of terminal blocks to half. Available models are:
- KU2D4 terminal blocks (internally shorted version): suitable for 1 input and 3 outputs, for wire size 2.5 sqmm.
- KUD2D4 terminal is specially recommended as its upper level is offset laterally by half of the terminal pitch, for wire size 2.5 sqmm.

Earth Terminals (ET series)
Elmex Earth terminal blocks replace conventional Busbars used for earthing. The structural design is such that the mounting rail not only has a mechanical but also an electrical function. Moreover, the housing is a green and yellow combination in accordance with universally accepted colour code for earthing. Available sizes are: ET4, ET10, ET 16, ET 35 and ET50.

Stud Type Terminals
Elmex has developed a whole range of stud-type terminal blocks with connection possibilities from 0.5 sqmm to 35 sqmm, which accept ring/fork type lugged cables while KUT series terminal blocks are designed for direct connection of conductors simply after stripping the insulation. The stud type terminal is provided to use with ring/fork type lugs for more secured connections.

Feed Through Terminals (KUT series)
Elmex “K” series Universal DIN rail mounted feed through terminals, in polyamide 66 housing, offer a complete range suitable for all control and power applications. The range covers terminals for conductor sizes from 0.5 sqmm to 95 sqmm. The terminals available are: KUT2.5, KUT4, KUT6, KUT10, KUT16, KUT25, KUT35, KUT50 and KUT95.

Fuse Terminals
Elmex Offers terminal blocks with built in safety fuse levers, where fuse protection facility is required. These terminal blocks accommodate a glass cartridge fuse of 5x20, 5x25 or 6x32 mm size. Available fuse terminal is KUDDF 4 for 4 sqmm wire. An LED is provided for blown fuse indication in KUDDF 4A.
Disconnecting Terminals

These terminal blocks find application mainly in secondary circuits of CTs, relay panels etc. A clearly visible sliding link is used for disconnection. Elmex offers a range of disconnecting type terminal blocks which can be used to disconnect the continuity without actually removing the wires. Available sizes are:

1) KUTSD6, which offers the feature of shorting to adjacent terminals using an internal removable shorting link, useful in SCADA applications. Rated cross section of wires is 6 sqmm. The link can be moved to one side by unscrewing. The tightening of the screw prevents it from sliding back.

2) KUTD10: same as KUTSD6 but suitable for 10sqmm cables.

Lighting Pole Terminals (LPT series)

Elmex lighting pole terminals offer safe and reliable termination solutions for street light wiring requirements. Lighting pole terminals come in two varieties: One with two inputs and one output, and the other with three inputs and one output. Available for 25 sqmm and 35 sqmm wires.

Accessories:

- Endplates
- Barrier Plates
- Shorting Links
- Marking Labels
- End Stoppers

They are of four types: Cross connection links, permanent shorting links, removable shorting links and comb-type links.

Marking Labels: Snap-on type marking label strips can be snapped onto ten terminal blocks together or can be broken at any point for individual marking.

Group Marking Carriers: Group marking carriers help to identify different groups of terminal blocks, and are of two types:

- SCUN MLH: a marking label holder is fixed on the universal rail mounted SCUN side clamp. A thick paper strip is inserted along with a transparent cover.
- SCKN MLH: a white marker switchgear writing area is snapped onto the groove or SCKN Side clamp.

End Stoppers: used to arrest the terminal blocks staked in DIN rails, a purely mechanical function. The widely-used cheaper Chinese version is also available.
Contactors and Isolators

C&S Electric Ltd. employs over 4000 people including 400 engineers, and has 19 state-of-the-art manufacturing plants in India, Belgium & China. It’s products are exported to 80 countries.

C&S Electric is a major investor in R&D for new-generation circuit breakers and contactors. A world-class expertise in the field of Capacitor Duty Contactors and Power Contactors has been developed over the years.

TC brand high-quality contactors and C&S brand isolators are widely accepted in the UAE market.
Power Contactors

- Wide range of power contactors 9 A to 800 A and control relay in AC & DC Control. Choice of 10 ratings in 3-pole & 4-pole versions. Also available:
- Common add-on accessories like Auxiliary Contact Block, ON-OFF Delay.
- Compatible Overload relays from 0.1 A to 1000 A, with built-in single-phase protection and auto-manual reset facility.

Capacitor Switching Contactors

- Capacitor Duty contactors: Product range 415VAC rating 10kVAR thru 60kVAR, available in eight ratings conforming to IEC-60947.
- Reduced watt loss during on condition, saves energy.
- Switching of Capacitor Bank in parallel without de-rating.
- High Electrical Life.

Isolators / Switching Disconnectors:

Range 25A to 3150A suitable for operation up to 750/1000V. Available in 3 pole as well as 4 pole, conform to IEC 60947.

Thermal Overload Relays

Overload relay 0.1 A to 1000 A available (CLASS-10) for TC Brand Contactors. Base for independent mounting is also available.
Busbars
Busbar Supports
Insulators
Spacers
Sleeves
**Busbar – comb busbar**

- Comb Busbars are available in two types:
  - Pin Type
  - Fork Type
- Available in two brands: POLLMAN & PHOENIX.

**BUSBAR SUPPORTS (SMC)**

Busbar supports are available in Cream & white colours. Available varieties are:
- Single-Pole 2 Run & 3 Run
- Three-pole 2 Run & 3 Run
- Four-pole 2 Run & 3 Run

**SINGLE POLE BUSBAR SUPPORTS (SMC)**

Twinstar brand – available models:
- 1P 99-406/211-2 Run (99 mm long: 4 runs of 5 mm busbar / 2 runs of 10 mm busbar)

**Conical Insulators (Dmc)**

Red in colour, made out of DMC (Dough Moulding Compound). Conical insulators are designated by the fixing screw size and height. Available in sizes: M6x25, M6x30, M8x30, M8x40, M8x45, M8x50, M10x40, M10x50, M10x60, M12x50, M12x60, M12x70 and M12x80.

**cylindrical insulators (dmc)**

Cylindrical Insulators are specified by three parameters:
- The fixing screw size (M6, M8, M10, etc.)
- The diameter of the cylinder (30 mm, 40 mm, etc.)
- The height of the insulator (30 mm 40mm, etc.)
- Colour: Grey
- Material: DMC (Dough Moulding Compound).
- Available sizes: M6x30x30, M8x30x30, M8x40x40, M10x40x40, M10x50x50.
PVC Heat Shrinkable Busbar Sleeves

“J-Lite” Brand
Gives perfect insulation to Busbars of low tension systems in control panels & switchgear. It also provides protection against accidental flashovers.

Sizes available:
17 mm, 20 mm, 25 mm, 30 mm, 35 mm, 41 mm, 48 mm, 55 mm, 61 mm, 73 mm, 81 mm, 85 mm, 93 mm, 103 mm, 110 mm, 120 mm, 128 mm, 140 mm, 150 mm, 170 mm.

Colours:
Red, Yellow, Blue, Black, Grey, & Brown

Shrinking Temperature:
150 °C – 170 °C (4 – 5 minutes);

Dielectric strength:
20 kV/mm.

Hexagonal Spacers

J-Lite Brand, standard size across Hexagon is 10mm, made out of steel Hexagonal Rod with M6 thread for fixing and supporting Bus bars. Available sizes are: M6×10, M6×15, M6×20, M6×25, M6×30, M6×40, M6×50, M6×60, M6×70, M6×80, M6×90 and M6×100.

Copper Bushes

- For Bus bar spacing support
- Made out of pure copper.
- Tinned for better conductivity.
- Available sizes:
  M6×15, M6×20, M6×25, M8×10, M8×15, and M8×20.

PVC Heat Shrinkable Busbar Sleeves (Low Tension)

“J-Lite” Brand
Gives perfect insulation to Busbars of low tension systems in control panels & switchgear. It also provides protection against accidental flashovers.

Sizes available:
17 mm, 20 mm, 25 mm, 30 mm, 35 mm, 41 mm, 48 mm, 55 mm, 61 mm, 73 mm, 81 mm, 85 mm, 93 mm, 103 mm, 110 mm, 120 mm, 128 mm, 140 mm, 150 mm, 170 mm.

Colours:
Red, Yellow, Blue, Black, Grey, & Brown

Shrinking Temperature:
150 °C – 170 °C (4 – 5 minutes);

Dielectric strength:
20 kV/mm.

Hexagonal Insulators/Drum-Type Insulators (DMC)

Red in colour, made out of DMC.
Available sizes are:
M6×30, M6×35, M8×30, M8×40, M8×50, and M10×50.

Polyolefin Heat Shrinkable Sleeves (Lt & Ht)

GALA Brand Heat Shrinkable Tubes are designed to insulate busbar systems up to 36 kV, to protect against accidental flashover. The sleeves are manufactured from high quality non-tracking cross-linked polyolefin material. We stock GMB (up to 25 kV) and GSC (up to 3.3 kV) for square busbar sizes 2×6, 20×3, 16×16, 20×3, 30×10, 40×10, 50×10, 90×10, 100×10 etc. Can be used for Round bus bar sizes 8 mm to 120 mm

GSC & GSC/YG are heat shrinkable thin-wall tubes suitable for light duty wire harnessing for electrical and electronic applications, color coding for wires, cables, terminals and components (upto 1.1kV — used as cable sleeves). GSC/YG range of tubing is extremely flexible, flame-retardant, and thin-walled. Yellow and green striped heat shrink polyolefin tubing is especially suited for electrical equipment ground lead applications. The unique dual color striping of yellow and green provides instant identification of ground wires.
BUSSMANN, an established brand the world over, aims to achieve increased safety with modular & progressive design, enhancing protection to installations, circuits & personnel. The products are versatile and rugged.
**Fuse Base 3P NH00/NH000**
Bussmann & Volt brands
- Ampere rating: 160 A
- Voltage rating: 500V AC
- Mounting: Dual option — screw-mounting /rail-mounting. (Dual option available for Bussmann)
- Standards: IEC 60629-1, DIN43620

**Bussmann Advantages:**
- i) Unique modular and progressive design: Available in single-pole, with easy to assemble multiple pole option. Phase barrier, terminal shield & top cover optionally available.
- ii) Flexible Mounting Options: Fixation system to 35 mm DIN rail. Screw mounting also in same base.
- iii) Operational Fuse Indication: viewable even with top cover in place.
- iv) IP20 protection

**Fuse Carrier IP RT 18-32**
VOLT Brand
- Modular Fuse Carrier—capacity up to 32Amp.
- Cylinder cap fuse base RT18 is widely used in capacitor bank.
- Rated Voltage: 380/500V
- Rated Current: 32A
- DIN Rail mounted

**Busbar Mounting Fuse Set**
“VOLT” Brand
- Model E33/3P
- Rated Current: 35A, 50A, & 63A
- Rated Voltage: 500V
- Standards: IEC 269
- Bottle-neck ceramic fuse

**Fuse Core/Link**
- Fuse core for NH00: (50A, 63A, 100A, 125A, 160A)
- Fuse core for IP.RT (18-32): 2A, 4A, 6A, 10A, 20A.

**Knife Edge Fuse Link**
Bussmann Brand
A square bodied range of industrial fuse links for a wide variety of applications.
- Class Operation: gl/gG
- IEC60269-1&2 and DIN 43620& CE standards/approval
- Sizes 000 to .3 (000, 00, 01, 1, 02, 2, 03, % 3)
- Rated voltage: 400V AC
- Rated current: 2 to 630A (2, 4, 6, 10, 16, 20, 25, 32, 35, 40, 63, 80,100, 125, 160, 200, 250, 315, 400, 500, 630Amps)
- Rated breaking capacity: 120 kA AC
- All fuse links are packed in 3’s
- Reliable dual indicator system
Cable & wiring accessories are used for connecting wires to contactors, terminals, and other components. They are made out of copper or brass. This category of products includes insulated / non-insulated copper lugs, wire end sleeves, fork terminals, ring terminals, insulated/ non-insulated copper pin-type terminals etc.
Cables
Brands: RR KABEL, RR-EU, Eletra-Al Fanar
- Construction: Conductor — single-core, multi-stranded flexible copper class conforming to BS 6231.
- Insulation: High temperature PVC type T13.
- Voltage Rating: 600/100 V conforms to BSEN50363*-3
- Temperature Rating: 105 °C.
- Minimum bending radius: 6 x overall Diameter
- Available from 0.5 sqmm to 50 sqmm nominal cross section.

Wire End Sleeves/Boot Lugs/Cord Ends
Brands: Volt, J-Lite
- Insulated / Non-insulated
- Material: E-copper
- Finish: Electro-tinned
- Range: 0.5 mm² to 70 mm²
- Sizes: 0.5, 0.75, 1, 1.5, 2.5, 4, 6, 10, 16, 25, 35, 50, 70 mm²
- Twin cord sleeve is available in sizes:
  - 1 mm, 1.5 mm, 2.5 mm, 4 mm & 6 mm

Fork Terminals
Brands: VOLT & J-LITE
- Insulated & non-insulated
- Material: E copper
- Range: 1.5 mm² to 16 mm²

Ring terminals
Brands: VOLT & J-LITE
- Insulated & Non-insulated
- Material: E-copper
- Range: 1.5 mm² to 150 mm²

Female/Male Connectors (VOLT)
Used for removable connections where male/female terminals ends are provided. Sizes available:
- 1.5 mm²
- 2.5 mm², and
- 6 mm²
**Cable Lugs**  
**Brands: VOLT & J-LITE**  
- Material: E-copper  
- Range: 4 mm² to 50 mm²  
- Sizes: 4x6, 4x8, 6x6, 10x6, 10x8 (mm² x mm)

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**Cable Ties & Tie Bases**  
"VOLT" brand  
- Material: Nylon 66  
- Colors: black, and white  
- Available sizes:  
  - Cable Ties: 2.5x100 mm, 2.5x140 mm, 2.5x160 mm, 2.5x200 mm, 3.6x150 mm, 3.6x200 mm, 3.6x250 mm, 3.6x300 mm, 4.8x200 mm, 4.8x250 mm, 4.8x300 mm.  
  - Tie Bases: 19x19 mm, 28x28 mm

---

**Spiral Bands**  
"VOLT" brand  
Spiral bands are very useful for organizing and protecting wires and cables especially in situations where you need to add or remove cables frequently; in such situations heatshrink sleeves are inconvenient, and spiral bands are the perfect solution. Features:  
- Highly flexible, expands as required  
- Retains spiral strength  
- White colour  
- Available sizes: 6, 8, 10, 12, 15, 19 and 24 mm.

---

**Cable Markers / Marking Ferrules**  
"VOLT" brand  
Yellow in colour; also known as wire marking ferrules; fits onto the wire OD and used for indentifying the wires by using appropriate marking code. Number digits (0-9) and letters (A-Z) are printed in black colour.  
- Available for wire sizes:  
  - 1.5 mm² – 3 mm² (EC 0)  
  - 2.6 mm² – 4.25 mm² (EC 1)  
  - 3.6 mm² – 7.45 mm² (EC 2)  
  - 6.0 mm² – 10 mm² (EC 3)  
  - 10 mm² – 35 mm² (EC 4)

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**Crimping Tools for Cable Lugs:**  
These tools are used for crimping wire ends, lugs with wire.
Neutral Links—7-way/10-way/13-way
Made of Brass, neutral links are tin-plated for better conductivity. Fitted with a plastic base to push-fit onto Din rail. Available in 7-way, 10-way, and 13-way. Separate, loose plastic bases are available. Bakelite bases are also available for special uses.

Neutral Link 9mm × 6-way
Brand: J-LITE
Used for 16 mm²/10 mm² wire, with 6 Holes (6-way). Made of brass, tin-plated, mounted with two screws, with built-in earthing clamp.

Neutral Link Extension
Neutral link extensions are used for MCBs and other purposes. It is available in two types:
- Single (with single lug)
- Double (with double lug)

Plastic Base
“J-LITE” brand
Available in three types (DIN rail fitted)
For 7-way, 10-way, and 13-way, commonly in blue colour.
For 9 mm × 6-way — black in colour, pair of two pieces

Earth Bar
Made of Brass; generally offered in 1 m or 0.5 m length. Available in two sizes:
- Medium size: 9 × 6.5 mm × 1 m
  (Hole Dia : 6 mm, 142 Holes)
- Heavy duty size: 9 × 12 mm × 1m
  (Hole Dia : 8 mm, 105 Holes)

PVC Tube for Cable ID Printer
Used in cable ID printer, made out of PVC, white in colour. Available sizes:
- 2.5 mm dia.
- 3.2 mm dia.
- 4 mm dia.
- 5 mm dia.
Switches
Indicators
Buzzers
Timers
Thermostats
Voltmeter Selector Switches
"Select" Brand
Model: PS16 (SP313), 16 Amps
7 positions:
- 3 positions for voltage between phases (RY, YB, & BR)
- 3 positions for voltage between Phase and Neutral (RN, BN, YN)
- 1 OFF position

Ammeter Selector Switches
SELECT BRAND
Model: PS16 (SP 325), 16 A
4 positions:
- Current reading in 3 positions (RYB)
- OFF position

Door Limit Switches
XIDER/ANDELI BRAND
Available Models are:
- AZ-7310 - Actuator Snap Type
- D4MC-1000 Actuator Lever Type

ON-OFF Switch
Brands: Select, Xider
- 2-Position: Model No: DB2-BD21
- 3-Position: Model No: DB2-BD33
- With CE mark, ROHS IEC 60947-5-1 EN 600947-1
- Protection IP40
- 200/230 V, 10 A, 50/60 Hz
Rotary Switches
“Select” Brand
- 16 Amps cam switches
- Single-pole, 2-pole, 3-pole with Hands Off Auto (HOA)
- PS 16-SP025-1POLE 3 WAY – AUTO OFF MANUAL
- PS16-SP027-3 POLE 3 WAY AUTO OFF MANUAL
- PS16-SP192-2 POLE 2 WAY- OFF ON
- PS16-SP038-2 POLE 4WAY-NO-OFF
- PS16-SP039-3POLE 4WAY
- PS16-SP037-1P 4WAY
- PS16-SP199-3P 2WAY
- PS16-SP026-2P 3WAY AUTO OFF MANUAL
- PS16-SP191-1P 2WAY
- PS16-SP100-3P 3WAY-3 POSITION-OFF

Indicator Lamp R, Y, B, Black, and Green Brands: XIDER/ J-LITE
Available in two sizes 16.5 mm & 22.5 mm; LED emitted lights; 5 colours.
- 24 V AC/DC, 220 V AC/DC
- Rated insulation voltage 600 V
- Panel mounting / Flush type
- Model :AS22-22DS

Emergency Push Button
“Xider” BRAND
Used for emergency stoppage of Electrical devices
- Model DB2-BS542
- 10 A, 400V/230V AC, 50/60Hz

Push Button with spare NO/NC Block
“Xider” BRAND
- 200/230V AC, 50/60 Hz
- Red, Black & Green Button
- AS per EN60947-1, IEC 60947-5-1
- Spare NO/NC blocks available.

Panel Buzzers
- Flush Type
  - CEA model: HRB-P80 with CE mark
  - 220V AC /24V DC
- Surface Type
  - CEA model-HRB-N80 with CE mark
  - 220V AC / 24V AC
  - 24V / 12V DC
**Mini Buzzer**
- CEA model-HRB-PS30 with CE mark
  - 24 / 110 / 220 V AC
  - 24 / 12 V DC

**Mini Siren**
- MS-190, red colour body
  - 220V AC
  - 24V DC
  - Base mounting / Tiltable

**Beacons / Warning Light**
Used in control panels for indicating emergencies.
- 220V AC 50/60 Hz
- Circumrotation
- Colours available: Red, Yellow, Blue

**Thermostat for Fan**
**Brands: Fandis, Stego**
Contact maker for regulation of air circulation fan or for switching on signal device when temperature limit has been exceeded. (Normally open)
- Wide temperature range: 10 °C to 80 °C.
- 5/10 A, 250V AC / 120V AC
- Model "TRT-10A230V-NO" FANDIS, Model "KTS-011"- STEGO
- DIN rail mountable, with blue knob

**Thermostat for Heater (Hygrostat)**
**Brands: Fandis, Stego**
Contact breaker for regulating heaters. (Normally closed.)
Features:
- Temperature range: 10°C to 60°C
- 240V AC/5 A, 120V AC/10 A
- Model Nos.:
  - Fandis: I6R 35F
  - Stego: KTO 011
- DIN rail mountable, with red knob.
1-24 Hour Timer
“Perry” brand

Two types are available:
- Daily time switch with reserve – Single module.
- Daily time switch with or without reserve – Double module

Features:
- DIN rail mountable
- 230 V, 50/60Hz AC
- Charge reserve 100 Hours – Single module, and 150 Hours for Double module.
- IP20 protection

On Delay Timer
Brands: Selec, Perry

- On delay model 600ST (240VAC)
- 10 Time ranges
- Front knobs for time range & time scale
- DIN rail mountable
- 240/110 V AC, 50-60Hz
- Cable size 1.5 mm²
**Wiring Duct/Cable Trunking**

**“RR” brand**

The product is specified as W×H (Width×Height): 25×40 mm (i.e. W= 25 & H=40 mm). The sizes available are: 25×25, 25×40, 25×60, 25×80, 25×100, 40×40, 40×60, 40×80, 40×100, 60×60, 60×80, 60×100, 80×80, 80×100, & 100×100 mm.

- Made of rigid PVC of high tensile and compressive strength.
- Non-inflammable, non-brittle & warp-proof.
- Slotting pattern prevents wire from popping up while removing the cover.

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**Meter Viewing Glass**

**(DEWA approved)**

- Size: 150×150 mm.
- Made of “UV” resistant plastic, clear and transparent viewing for accurate meter reading.
- Double glass window
- Cut-out size 158 x 158 mm
  (Panel cut-out template provided)

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**Meter Glass**

- Snap-on Type:
  - Size: 96 × 96 mm, can be push-fitted.
  - Cut-out size: 92 × 92 mm
  (Panel cut-out template provided)
- Screw-fit Type:
  - Size: 96 × 96 mm, fitted with self-tapping sheet metal screws 3 mm dia.
  (Panel cut-out template provided)
  - Cut-out size: 94 × 94 mm
  - Rubber Gasket provided for IP protection.
- NL Type:
  - Size: 125 × 125 mm, fitted with circlips, 5.5 mm holes to be provided for inserting lugs for circlips.
  - Cut-out size: 117.5 × 117.5 mm
  - Rubber gasket provided for IP protection.
Panel Heaters
Brands:
Stego (Germany) and Fandis (Italy)

HG 040 SERIES STEGO: SEMICONDUCTOR HEATER
Compact heater used for avoiding malfunctions caused by condensation and for use in enclosures where the temperature should not fall below a minimum value. The aluminium fins provided have a chimney effect and help to distribute heat evenly.

Instrument Cooling Fans
“JAINSON” Brand

Sizes and Features are as in table below:

<table>
<thead>
<tr>
<th>Sr #</th>
<th>Description</th>
<th>Rated Voltage</th>
<th>Current</th>
<th>Power</th>
<th>RPM</th>
<th>CFM</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4” (120 × 120 × 38 mm) Square Fan</td>
<td>230V AC</td>
<td>110 mA</td>
<td>20 W</td>
<td>2550</td>
<td>109</td>
</tr>
<tr>
<td>2</td>
<td>6” (172 × 150 × 51 mm) Oval Fan</td>
<td>230V AC</td>
<td>210 mA</td>
<td>40 W</td>
<td>2650</td>
<td>197</td>
</tr>
<tr>
<td>3</td>
<td>8” (220 × 220 × 60 mm) Oval Fan</td>
<td>230V AC</td>
<td>325 mA</td>
<td>46 W</td>
<td>2400</td>
<td>360</td>
</tr>
</tbody>
</table>

Instrument Cooling Fan Accessories:
Louvers, Filters, Grills
“JAINSON” Brand

Air Vent: Made out of ABS plastic. Can be fitted with screws provided in the kit directly on one side of the fan. On the other side, a steel grill is fitted. The Vent and the Grill are supplied as one set along with each fan, but are optional. Available in RAL 7032 & 7035 colours.

Sizes:

- 130 × 130 mm to be fitted with 4” FAN
- 184 × 184 mm to be fitted with 6” FAN
- 238 × 238 mm to be fitted with 8” FAN

Snap-on Type Filters/Louvers
“JAINSON” Brand

Made of ABS plastic.
Sizes and colors:
147×147 mm, 203×203 mm, 255×255 mm, 325×325 mm in RAL7032 & 7035 colours.
Air Vent Junior
Made of plastic 50 mm wide, 80 mm height with the 4 holes for fixing. Called Air Vent Junior since it is small in size.

Document Holders—A4/A5
Available Sizes:
- A4 Deep – 258 × 232 × 38.5 mm Deep
- A4 Regular- 282 × 240 × 17 mm Deep
- A5 Regular- 189 × 184 × 20 mm Deep
- Fitting: Provided with self-adhesive foam tape.
- Colour: Grey RAL 7035/7032
- Material : ABS

Blanking Plates: i) 12-module type ii) 1 metre long type
MCB blanking plates are for blanking cut-outs in Control panels and DB Boxes. This item is available in 12-module type (216 mm length), and 1 m long type. The 12-module type can be snapped off by hand to the required number of modules, whereas the meter-length type has to be sawn off to size. However, the latter is more economical to use.
- Material – ABS/ PVC
- Colour- Grey RAL 7032/7035

DIN Rails “JLITE” brand
Manufactured according to universally adopted DIN standard to suit all types of terminals, MCBs and other rail mounted devices. Two main sizes offered are:
- 35 × 7.5 × 1 mm,
- 35 × 15 mm × 1.5 mm
Other features:
- 2 m standard length
- ZINC yellow passivated
- CE & ROHS complaint
- Material CRCA (Cold Rolled Cold Annealed)

DIN C-Rails /Channels “JLITE” brand
DIN rails with “C” cross-section
Sizes:
- 10 × 20 mm
- 20 × 40 mm
- Other features as above
DIN Rail End Caps
End caps are provided for safety of personnel and prevention of damage to costly components due to sharp edges of DIN rail. Made out of plastic and can be easily press-fitted onto the end of the DIN rail.

DIN Rail Cutter (Manual Type)
Clear & accurate cutting without burrs & deforms:
- Unblunt blade.
- Ruler for easy setting
- Suitable for shearing:
  - DIN rail: 35 × 7.5 × 1 mm, 35 × 15 mm × 1.5 mm,
  - DIN C-rail: 10 × 20 mm, 20 × 40 mm.

Thread Rods
Used for mounting various components in Panels.
- Available sizes: 6, 8, 10 & 12 mm
- Material: M S Rod threaded fully, continuously and galvanized.

MCB Boxes/Fuse Boxes
“PRESTOTEAK” Brand
Used for push/press mounting of miniature circuit breakers/ fuse holders.
- Material: Poly Carbonate/ ABS.
- Cream / white colour
- Available in three different modules: 1-2 pole / 3-4 pole /4-6 pole
Metallic Louvers:
To provide natural ventilation / air circulation in panels.
- Material: CRCA sheets.
- Size: 240 × 90
- Colour: RAL 7032/ RAL 7035

Door Handles C Type
“JLITE” brand
Used for panel door handles.
- Made of Nylon
- Black colour
- 1 Set = 2 Handle + 4 Screws.

MCB Locks (PADLOCK)
Made of steel-chrome plated.
- Padlocking for XT1 / XT3 MCCB.

Metallic Louvers:
To provide natural ventilation / air circulation in panels.
- Material: CRCA sheets.
- Size: 240 × 90
- Colour: RAL 7032/ RAL 7035

Gasket Sheets:
Adhesive gaskets are used in panel doors.
- In 10 m rolls
- Available Sizes:
  - 12.5 mm width × 1 mm thickness
  - 12.5 mm width × 2 mm thickness
  - 12.5 mm width × 3 mm thickness
  - 25 mm width × 1 mm thickness
  - 25 mm width × 2 mm thickness
  - 25 mm width × 3 mm thickness

Insulation Tapes
Used to insulate electrical wires and other materials that conduct electricity.

Grommets
“JLITE” brand
Made out of rubber, black in colour.
- Protects from dust and creepage.
- Abrasion & tear-resistant, protects wire from tearing of insulation.
- Closed type for blinding unwanted holes.
- Available in sizes: 20 mm, 22 mm, 25 mm, 32 mm, 38 mm, 50 mm.
  (Both closed & open type)
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