



Product Range

- Electrical Industrial Components
- Electronic Components
- Solar Solutions
- Customised Solutions
- E-Mobility Solutions

TRIBOX[®]

TRIFLEX[®]

TRISOLAR[®]

TRISENSE[®]

TRIPRO

TRICHARGE[®]

SIMPLY SOLUTIONS



Organisation

Trinity Touch is a leading product manufacturer and solutions provider for Industrial Electrical applications. We supply our high quality products and solutions to various industries such as Panel Builders, Machine Builders, Renewable Energy & Telecom to name a few.

Trinity Touch has three Business Areas that have become technology or market leading in their respective areas of application:

- **Cabinet Plus** - for Electrical & Electronic Components.
- **Solutions** - Solar Solutions, Wind Solutions, Telecom Solutions etc.
- **EV Solutions** - Electric Vehicle Components & Charging Infrastructures.

We have a national and global presence to service the needs and requirements of our customers and are exporting our products to over 20 countries. We have a production capability of 10+ production principles including- extrusion, molding, stamping, plating etc.

Solutions

Trinity Touch provides market leading electrical solutions for various applications. We have technology and market leading solutions for industries such as Solar, Wind, Railways, Telecom and EV Solutions. In the Solar Industry, we have supplied over 75 GWp worth of solutions worldwide. More recently we have launched a range of completely indigenised Charging Cables. Trinity Touch has been working with Electric Vehicles since 2018 with an aim of addressing the growing environmental concerns.

Products

Trinity Touch focuses on manufacturing various items used in control cabinet industry. Trinity Touch is one of the leading manufacturers of industrial grade Enclosures, Cable Glands, Wiring Ducts, DIN Rails, Solderless Terminals Interface Modules and Timers to name just a few in the control cabinet industry. We have many prestigious clients for these products including leading System Integrators, Panel Builders, Machine Builders and Industrial Corporations globally.

Approvals



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ARAI



FRLS



Products

TRIBOX®



Thermoplastic Enclosures

- High quality-light weight thermoplastic enclosure for industrial applications available in opaque & transparent cover.
- Material: Polycarbonate and ABS.
- Ingress protection: IP67.
- Impact resistance: IK08 for ABS/ IK10 for PC.
- Color: RAL 7035.
- Temperature range: -40°C to +80°C.
- Gasket: Silicone/Polyurethane.
- Dimensions (WxHxD): 85x83x60mm to 600x600x225mm.
- Accessories: Mounting plate, External mounting brackets, Hinge, Combiner, etc.



Aluminium Enclosures

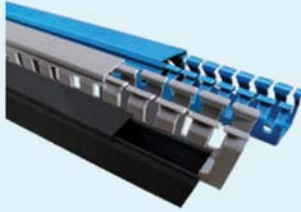
- Aluminium enclosure range is compatible for indoor and outdoor applications with excellent corrosion resistance.
- Material: Diecast Aluminium.
- Ingress protection: IP67.
- Impact resistance: IK09.
- Color: RAL 7001 and RAL 7035.
- Temperature range: -40°C to +110°C.
- Gasket: Silicone.
- Dimensions (WxHxD): 82x77x57mm to 280x230x111mm.
- Accessories: Mounting plate, External mounting brackets, Hinge, etc.



FRP / GRP Enclosures

- Non-Corrosive, Non-conductive, Customisable, weatherproof, long life maintenance free plastic enclosure.
- Material: Fiberglass reinforced polyester.
- Ingress protection: IP65/IP66/IP67.
- Impact resistance: IK10.
- Color: RAL 7035, Grey and RAL 9016, Traffic White.
- Temperature range: -50°C to +150°C.
- Gasket: Silicone/Polyurethane.
- Dimensions (WxHxD): 122x120x91mm to 1000x1000x320mm.
- Accessories: Mounting plate, External mounting brackets, Hinge, Combiner etc.

Wiring Ducts



PVC Wiring Ducts

- UL 94 flammability rating V0.
- Continuous use temperature 60°C (140°F).
- Wrap proof rigid PVC with lead free material.
- Mounting hole pattern according to DIN 43659.
- Wide range from 25x25 mm up to 150x100 mm.
- Available in 1mtr./2mtr. standard lengths.
- 32 Sizes available in Narrow slot , Wide slot & Unslotted (solid wall) type.
- Available in all colors (stocked in 3 colors).
 - Blue (RAL 5015) ■ Black (RAL 9005)
 - Grey (RAL 7042)



Halogen Free Wiring Ducts

- Raw material UL certified.
- UL 94 flammability rating V0.
- Unique Low Smoke Zero Halogen (LSZH) material.
- Continuous use temperature 90°C (194°F).
- No Bromide, No Chlorine & No Fluorine.
- 20% Light weight than to PVC.
- Higher tensile & impact strength.
- DIN 43659 standard mounting holes.
- 28 Sizes available in Narrow slot, Wide slot & Unslotted (solid wall) type.
- Conform to: EN 50085-2-3.
- Color: ■ Silver grey (RAL 7035) and ■ Blue (RAL 5015).



Tools & Accessories

- Tools:
 - Wiring duct cutting tool.
 - Rivet installation tool.
- Accessories:
 - Rivet.
 - Mounting clips-Round.
 - Mounting clips-Rectangular.
 - Wire retainer & Tag holder.
 - Wall divider / Separator.

Cable Glands



Cable Glands-Nickel Plated Brass

- Complete range of sizes.
- Wide sealing and clamping range.
- Easy to install.
- Integrated anchorage.
- Metric and Pg thread available.
- Available in Normal, EMC & Combination type.
- 8 Sizes available in Metric standard thread & Long thread.
- 10 Sizes available in Pg standard thread & Long thread.
- 8 Sizes available in EMC standard thread & Long thread.



Cable Glands-Polyamide

- Complete range of sizes.
- Wide sealing and clamping range.
- Easy to install.
- Integrated anchorage.
- Metric and Pg thread available.
- Silver grey (RAL 7001), Light grey (RAL 7035) and Black color (RAL 9005).
- 8 sizes in Metric & 10 sizes in Pg thread available in all colors.



Accessories-Nickel Plated Brass & Polyamide

- Locknuts.
- Enlarger.
- Reducer.
- Screw plug.
- Blanking plug.
- Dust cap.
- Multiple sealing inserts.

DIN Rails



DIN Rails-Perforated & Un-Perforated

- The design of the DIN rails complies with European standard EN 60715.
- Available sizes: 15/5.5, 35/7.5, 35/15, 32/15.
- Available in 1 Meter & 2 Meter standard length.
- Particular attention has been paid to a high degree of dimensional accuracy and surface tempering.
- The DIN rails are available with various surface coatings and are suitable for the following installation:
 - White passivated plus zinc plated, for indoor installation.
 - Thick layer passivated plus zinc plated, for indoor and protected outdoor installation.
 - Made of copper may be used as grounding bus bars (PE function) as well as neutral bus bar (PEN function).
- Available for M4, M5, M6 screw width.



Universal DIN Rail Cutter

- Long life of punch and side plates.
- Nickel-chrome plated handle.
- Ease of operation.
- Cuts in flash and without burr or deformation.
- Guide plate facilitates insertion of profile and provides rail support.
- Direct reading rail length indicator (Scale).
- Common cutting die for 32/15, 35/15, 35/7.5, 15/5.5 DIN Rails as well as neutral busbars NLS CU 3/10.

Solderless Terminals



Insulated Terminals

- Ring type terminals.
- Spade type terminals.
- PIN type terminals.
- Cord end terminals.*
- DIN terminals.
- 42 Sizes available in ring terminals.
- 26 Sizes available in spade terminals.
- 4 Sizes available in PIN terminals.



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RoHS

UL
US

Non-Insulated Terminals

- Ring type terminals.
- Spade type terminals.
- PIN type terminals.
- 63 Sizes available in ring terminals.
- 26 Sizes available in spade terminals.
- 8 Sizes available in PIN terminals.



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RoHS

UL
US

UL
UL

Copper Tubular Lugs

- TTLKI with Inspection
- TTLK w/o Inspection hole
- 21 Sizes available in tubular series.



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RoHS

UL
US

UL
UL

Connectors & Disconnectors

- Butt & Parallel type connectors.
- Male & Female disconnectors.



Accessories

Crimping tools

- Material : High conductivity copper material with tin plating for corrosion resistance.
- Insulation : Vinyl (PVC insulation).
- Available in standard crimping length (Cord end) and stud sizes (Ring type).

Flexible Conduits

TRIFLEX®



Non-Metallic Conduits and Fittings

- High quality nylon PA6 material.
- Color - Black & Grey.
- Temp. range - -40° to 120°C.
- Mfg. as per - IEC 61386.
- 8 Sizes available in conduits - 10mm to 54 mm.
- 8 Sizes available in male PG glands (Pg7 to Pg48).



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EN 45545-2

CE

UL

RoHS

HALOGEN
FREE

IP 68

FLEXICON
FLEXIBLE CONDUITS & ACCESSORIES



EN 45545 - 2



Non-Metallic Conduits



- FPAS/FPAL - standard & lightweight nylon flexible conduit.
- FPR/FPAH/FPI/FPIH - standard & heavy weight nylon flexible conduit.
- FPY/FPADS/FPP - polypropylene, nylon & slit flexible conduit.



EN 45545 - 2



Metallic Conduits

- FU/SSU - flexible steel conduit & fittings.
- FSU/FNU - flexible coated steel conduit & fittings.
- LFHU - flexible coated steel conduit & fittings.
- FSB - flexible coated steel conduit with overbraid & fittings.
- FB - flexible steel conduit with overbraid & fittings.
- LTP/LTPHC/LTPUL - liquid tight flexible coated conduit & fittings.



EN 45545 - 2



Accessories

FPA system nylon.

Construction: Nylon (PA 66) moulded fitting.

Color: Black (RAL 9005) or Grey (RAL 7031).

- FPA: Straight external thread.
- FPA 90: 90° elbow external thread.
- FPA 45: 45° elbow external thread.
- FPA-FPA: Coupler.
- FPA: T piece with inspection lid.
- FPA: Reducing divider.
- FPAX fittings also available with IP 69K rating.
- FLK Flexilok fittings also available.

External Lightning Protection System



Radius of Protection

TRIPRO

The Early Streamer Emission (ESE) TRIPRO lightning conductor has been tested in laboratories in compliance with NF C 17-102 standard protocol. Can cover protection radius of upto 107 meter. These tests have determined an excitation advance from 12μs to 60μs with regard to a simple rod.

Applications:

- Industries • Buildings • Solar farms
- Open-Air installations • Telecommunications

Industrial Plugs & Sockets



Wall Sockets, Panel Mounted Sockets, Couplers / Connectors, Interlock Units, Straight Plugs, Panel Inlets & Wall Mounted Inlets

Specifications:

- Make in India products.
- Splash proof and Water tight.
- High grade material PA/PC.
- Halogen free.
- Glow wire test 960°C.
- Safe-reliable and durable.
- Fast make and break connection technology.
- Current Range 16, 32, 63 & 125 Amp.
- Voltage Range 110, 230, 400 & 500 Volt.



IEC 60309-1
IEC 60309-2

Electronic Components



Interface Modules

- Modules with electromechanical relay with AC and DC Input in 16, 8, 4, 2 and 1 channel with 1C/O, 2C/O and 4C/O.
- Option available with fuse and fuse blow indication at output in EMR (Electromechanical Relay) and SSR (Solid State Relay) modules.
- Passive module with FRC/D-Sub/ELCO/RJ45 connector.
- Accessory module: Utility module, Potential distribution Module, Diode O-ring module.
- DO/DI module with FRC/D-sub connector.
- CNC module with 24 Inputs and 16 outputs.
- Modules are available in Green and Black profile.
- EMR modules are available with OMRON, TYCO & OEN relays.
- SSR modules are available with CRYDOM relays.





Analog Timers

- Multi function.
- ON delay / Interval.
- Cyclic on-off.
- Reverse pause forward.
- Star delta.
- True power off delay.



Digital Timers

- On Delay / Interval timer.
Single Row 3-digit display with Push wheels.
- Multi-function timer.
Single row 3-digit display.
- Dual display multifunction timer.
Double Row 3-digit display / Double row 4-digit display / Double row 6-digit display with memory retention feature.

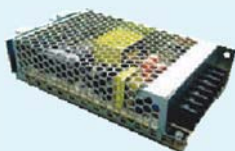


Phase Sequence Relay (PSR)/Single Phasing Preventer (SPP)

- 3 Phase - 3wire input/control supply.
- Monitors (Voltage unbalance, Phase sequence, Phase loss).
- LED Indication : Trip & Power ON.
- Slim, Space Saving Design.
- DIN Rail Mount.



Switch Mode Power Supply (SMPS)



- Single phase, 88 to 264 VAC, 125 to 373 VDC, 47 to 63 Hz
- Protections: Short circuit, Overload and Over voltage
- Cooling by free air convection
- Product hardware built up with highly rated electrolytic capacitor (105°C)
- Ambient operating temperature : - 25 to 70°C
- Adjustable output voltage : 22.8 to 27.2 VDC
- Mounting options: With cover- Direct mounting or DIN Rail mounting with clamp
- Complied as per IEC standards : EMI: CISPR32/EN55032 CLASS B, EMS: IEC/EN61000



IDEC

- Push button and Pilot switches in 16 mm, 22 mm and 30 mm.
- Terminal blocks.
- Power supply.
- Interlock switches.
- Relays.
- PLC & HMI.



Solutions

TRISOLAR®



Solutions for Solar Plants

- Array junction box.
- String combiner box.
- String monitoring box.
- String monitoring box 1500V DC.
- ACDB/DCDB.



SolarVision® SCADA

- Modular architecture.
- Analysis of plant, block, inverter & SMB.
- Graphical performance analysis.
- Simple alarm & trend handling.
- Simple report generation & Easy data backup.
- Easy diagnostic for PLC and network.



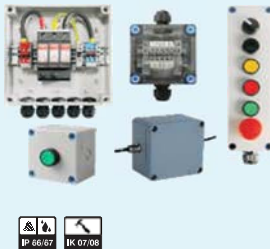
Solar Components

- String Monitoring Device -
- TRICHECK 8, 16, 24 | TRICHECK modular.

TRISENSE

- Weather Sensors - (Irradiance, Wind speed, Wind direction, Ambient temperature, Module temperature, Relative humidity, Precipitation, Soiling monitoring, Sun tracker, Albedometers).
- Kipp & Zonen sensors. - Lufft weather sensors.
 - Irradiance sensors.

Customised Solutions



Customised Solutions with

TRIBOX®

- Push button box.
- Emergency stop box.
- Surge protection box.
- Terminal box.
- Local control station (LCS).
- Plug & Socket box.
- Solutions for hazardous area.
- Fire intrinsic box (BS/EN 50200).
- Loop in loop out box.
- Power distribution box.

E-Mobility Solutions



LEV DC 2W/3W Connector

AC Type 2 Connector

CCS2 DC Charging connector

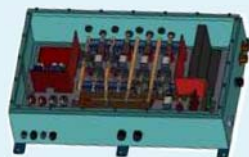
- 100% Indigenised.
- Customization option for cable length and terminations.
- For Electric Two wheelers, Three Wheelers, Four wheelers, LCV, Bus G Truck segment.
- Type 6 LEV DC Rated current 20A G 50A G Voltage: 120V.
- Type 2 connector Rated current 20A/ 32A 1Ph G 3Ph G Voltage: 230V / 415V.
- DC CCS 2 Rated current up to 250A G Voltage: 1000V.
- Also Type 2 - Type 2 combo available on request.

EV Charging Connector Holster



- Compatible with Type 2- AC charging connectors 16-63A 1 Phase G 3 Phase IEC 62196-2, Type 2-DC CCS charging connectors, upto 250A.
- RoHS certified, UV Resistant.

Power Distribution Unit for EV



- Rich experience in manufacturing of power distribution box for industrial application.
- Provide service to turn customer requirement into a prototype and the prototype into a bullet proof solution.
- Dedicated skilled technical engineering team for PDU designing as per customer requirement.
- Perfect solution for high voltage electric vehicle application.
- Voltage rating Up to 800V.
- Current rating DC Upto 250A per string.
- Operating temperature -40° C to 80° C.
- IP67.

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