

E-mobility

THE SOLUTIONS YOU NEED TO CHARGE AHEAD

THE **LITTLE** **THINGS** MATTER

We're Essentra, worldwide manufacturers and distributors of small, but vital components for multiple industries. We're proud of what we do and believe that even the smallest solutions have a big part to play in the e-mobility industry.

We work with the top 15 global tier-one automotive suppliers, providing the highest standards of service and quality. We also work with 70% of the world's top 100 global manufacturers.

We are a FTSE 250 company. While our reach is global with 12 manufacturing facilities, we have a local understanding. For you, that means our manufacturing capabilities, experience, customer focus, and global infrastructure allows us to leverage our extensive network to deliver bespoke solutions. We're able to bring together the best products, ideas and distribution for the e-mobility sector.

"FROM CONCEPT TO PRODUCTION, ESSENTRA WAS ABLE TO SMOOTHLY MANAGE ALL PROJECT REQUIREMENTS TO COME UP WITH THE PERFECT SOLUTION."

"ESSENTRA WAS SO EASY TO DEAL WITH, PROVIDING SAMPLES AND 3D PROTOTYPES THROUGHOUT THE PROJECT."

Bob Siegwald,
Burgafflex Executive Vice President

WE WORK
WITH THE TOP

15

GLOBAL TIER ONE
AUTOMOTIVE
SUPPLIERS

WE WORK TO HIGH
STANDARDS, WITH

ISO & IATF
ACCREDITATION

EUROPE



GLOBAL REACH WITH A LOCAL TOUCH

Whether you have a global or local project, with over 65 years' experience, and worldwide coverage, we are here to help you.

AMERICAS



WHO IS ESSENTRA COMPONENTS?

We combine the expertise of a manufacturer with the range and service of a distributor. We act as the one-stop shop, single-source supplier of c-class components to 70 of the top 100 global manufacturers.

ASIA PACIFIC

**12**

manufacturing facilities

65⁺

years heritage

4

R&D and engineering centres

47

sales & distribution centres around the world

100k⁺

products available

>1

BILLION parts in stock

ARE YOU PREPARED FOR **WHAT'S COMING?**

OPEC has raised its forecast for the size of the EV fleet in 2040 to 250 million units from 140 million. That's where we can help, no matter what stage your product is at, whether you're refining your design or prototyping. Our expert advice, extensive range, consistent quality and custom solutions can make all the difference.

ACCESS SOLUTIONS

If you need a high-performance, ergonomic product, we can help with solutions sensitive to their environment and user needs while complying with international regulations.



SECURE QUARTER TURN LOCKS

- High security
- Ease of use – key acts as a knob
- Corrosion resistant chrome-finish die-cast zinc alloy
- Stainless-steel versions available



FLUSH PULL HANDLES SNAP-IN ASSEMBLY

- Safe, comfortable, ergonomic grip
- No exposed handles to catch clothing or skin



EASY-FIXING QUARTER TURN LOCKS

- Easy assembly by clips
- Convenience – mounting nut not required
- Specially designed internal spring



CONCEALED HINGES

- Anti-corrosion stainless steel
- Aesthetic appeal – hinge is not visible from outside



EMI GASKET

- Reduce radiated emissions for charging stations
- High noise-reducing characteristics
- Easy application with adhesive base



BUBBLE GASKETS & EDGE PROTECTORS

- Easy to apply
- Versatile applications
- Choice of EPDM or PVC material



SWING HANDLES

- Higher-strength security
- Corrosion-resistant stainless-steel keyhole cover
- Adjustable with high-security cylinder lock
- Add your logo or design with custom printing
- Keyed alike or different

AUTOMATION & CONTROL

The challenges of operating indoor and outdoor charging stations safely are no problem with our range of IP50 and IP65 control units.



PILOT LIGHTS

- Ensure the operator is clearly informed of the status of the charging station
- Protective cable inlet tips enable maximum safety
- IP50 & IP65 versions, AC & DC, multiple colours
- UL & VDE certified



CONTROL UNITS

- Available for most common functions: start, stop, start-stop, emergency stop
- IP50 and IP65 versions
- UL & VDE certified



CABLE ENTRY

Weather-proof solutions with guaranteed ingress protection – just what you need to protect your charging station cables and prevent costly repairs.

CABLE GLANDS

- Secure cables to your equipment
- Nylon, brass and stainless-steel versions
- Wide-operating temperatures
- Flammability and explosion rated
- IP68 options when used with our accessories



GROMMETS

- Easy-to-install protection from sharp edges of unfinished sheet metal
- Provides a dust and watertight seal
- Suits external applications
- Withstands vibrations



CABLE ENTRY SYSTEM

- Convenient tool-free entry and connecting technology
- Order plate and accompanying grommet
- Stands up to extreme temperatures: -30°C to 100°C
- Tough, strong polyamide material with IP65 rating

PROTECTION

Ensure smooth assembly and transit by protecting critical profiles from damage. You can also get a professional finish by masking holes and contact points with easy-to-fit caps and plugs.

HARNESS WRAP

- Polyethylene for high ductility and impact strength
- Allows cables to branch out at any point and in any direction



VENTING ELEMENTS

- Protection for electronic enclosures against condensation, water and pressure
- Protection grade: IP68 0.6 bar
- Temperature range -40°C to 100°C
- Polyamide PA6 UL94 V-0



LIQUID TIGHT PLUGS

- Protects from dust and withstands water immersion (IP67)
- Silicone rubber. UL94 V-0



EXPANDABLE SLEEVE

- Flame resistant for high-temperature cable applications
- Lightweight, chemical resistant, low wear and moisture stability



RAPID CABLE WRAP

- Easy fitting with flexible PVC
- Versatile applications



FLEXICAPS

- Flexible PVC allows easy fitting
- Versatile applications



CABLE MANAGEMENT

Manage, organise and protect complex cabling with easy-to-install solutions suited to a range of demanding and varied environments.

CABLE TIE HOLDERS



- Saves space while easily coping with high temperatures
- Eliminates the need for separate cable holders
- Accommodates bundles before or after mounting
- Range of mounting options



HEAT STABILIZED CABLE TIES

- Keeps cables orderly and easily accessible
- Flame retardant, cost effective and strong

TUBULAR RING TERMINALS



- Ideal for multi-stranded cables
- Highly conductive copper and tin plated for corrosion resistance
- Tubular terminals with flat surface end enables easy and precise contact



INSULATED RING TERMINALS

- Easy entry
- Copper – tin plated – polyamide sleeve
- DIN 46237 – refers only to the tubular part of the terminal

SLOTTED WIRE DUCT



- Perfect for general purpose control panel wiring to route and protect wires
- Holds breakout wires while providing flexibility for adding or removing wires
- Lid supplied with base
- Easy break-off with scored fingers



INSULATED CORD END TERMINALS

- Improves connection and circuit continuity
- Used to strengthen fine wires when terminating cables into connectors or terminals
- Provides neat and clean finish for connections
- Copper – tin plated – polyamide sleeve
- DIN 46228/4 standard
- German and French standard ranges available upon request

FASTENERS

Ensure the quality and life of your product with fasteners in the sizes and tolerances you need, designed to work for just about every application.

PEEK® SOCKET HEAD SCREWS



- Superior strength-to-weight ratio
- Resists most chemicals: UL94 V-0
- Stands up to continuous temperature use of 180°C



SLOTTED CHEESE HEAD SCREWS

- Durable natural nylon
- Standard ISO 1207 and NF E 25 purposes only

WASHERS



- Insulates against moisture and electricity
- Resists corrosion and abrasion
- Provides full insulation, cushioning and spacing
- Durable natural nylon



ANTI-LOSS WASHERS

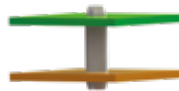
- Conveniently hold screws and bolts in place during assembly
- Lightweight yet strong natural HDPE or nylon
- Provide full moisture and electrical insulation, cushioning and spacing

PCB HARDWARE

Our vast range is all about choice, whether it's a hex standoff for high-critical strength or PCB support with various locking methods.

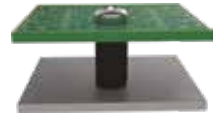
MINI SUPPORT POST

- Securely anchors PCBs
- Nylon 6/6 for strength, ductility, and heat resistance



HEX THREADED STANDOFF

- Secure circuit boards with high-torque locking and grounding features
- Extra strength and stiffness with 25% glass-filled nylon
- Black colour with Male and Female options



CIRCUIT BOARD SUPPORT POSTS

- Fits into the circuit board to provide greater stability
- Easy fixing with various snap-in-fit options
- Available in two durable materials, nylon 6/6 or natural nylon



HEX SPACERS

- Robust and secure with convenient screw-in design
- Male, Female and Undercut versions
- Available in three corrosion-resistant materials:
 - Nickel-plated brass
 - Zinc-plated steel
 - Stainless steel



LOW VOLTAGE INSULATORS

- Durable natural nylon with brass insert
- Suitable for voltage breakdown >11,000 volts/mm
- Withstands harsh temperatures, from -40°C to +105°C
- Male, Female and Micro versions

FAN HARDWARE

Our fan sets, assemblies and accessories give you protection and mounting for small DC and AC fans suitable for pedestal and rapid chargers.

FAN FILTER SETS

- Provides IP30 protection
- Includes finger guard, filter cover, mesh filter and felt filter



FAN GASKET

- Black silicone rubber for a simpler and faster installation method than conventional screw mounts



FAN GUARDS

- Prevents debris falling into fan blades and accidental obstruction
- Steel-wire electroplated for corrosion protection and lubricity
- Nickel-chrome finish



BREAK-AWAY FAN MOUNT

- High-elongation rubber for easy fan mounting and shock and vibration protection
- Ideal for cooling electronic applications
- Protects against dust ingress and accidental damage



DON'T SEE WHAT YOU NEED HERE?

Ask us about different sizes, shapes, materials and finishes. Our Custom Solutions team will work to your specification. Find out more and contact us at essentracomponents.com/charging



WHY ESSENTRA?

**FREE
SAMPLES**

**FREE
CAD**

**LOCAL
STOCK**

**FAST
DESPATCH**

**LOCAL
TEAM**

**OVER
100,000
PRODUCTS
AVAILABLE**

**ISO & IATF
ACCREDITED**

LET'S TALK

For more information and to contact your nearest Essentra office please visit essentracomponents.com/charging or email emobility@essentracomponents.com

essentracomponents.com/charging

MAKING IT EASIER

LIT-EMOB-UK