



Brochure 2025

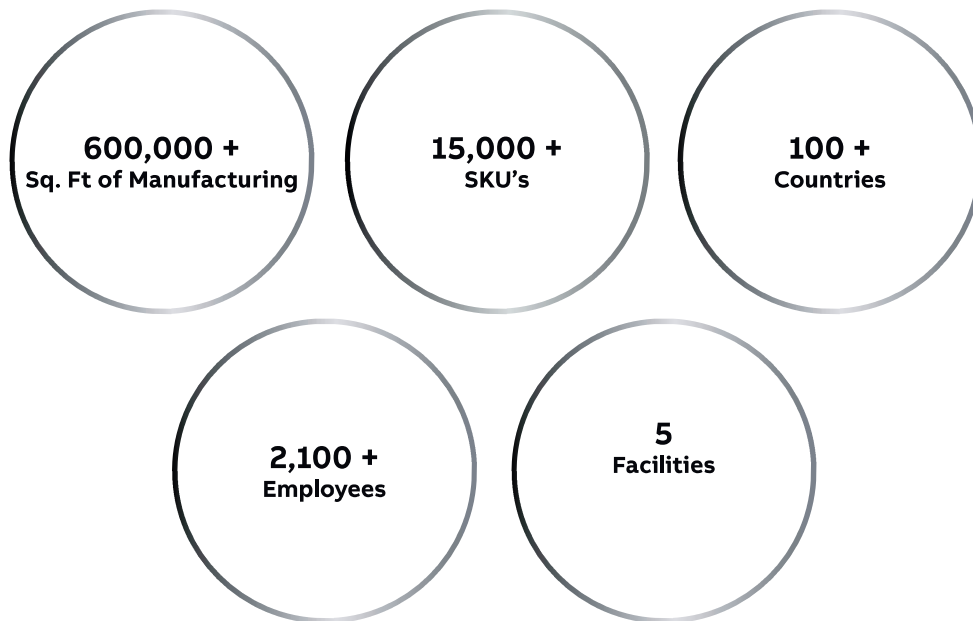
Electrical Products

Manufacturer of Electrical Solutions





Established in 1974, OEC is a leading manufacturer of electrical and automotive products, embodying the spirit of a family-owned corporation. Over the last 50 years, OEC has consistently expanded its product portfolio to cater to diverse customer needs, forging enduring relationships with globally reputed OEMs, distributors, and retailers. As a one-stop shop, OEC manufactures the complete range of grounding, insulated connectors, mechanical connectors, weatherproof products, conduit bodies, EMT fittings, and more. Our commitment revolves around offering value-added products at competitive prices while ensuring unparalleled service and support, reflecting our dedication to customer satisfaction.





Capabilities

- Forging
- Stamping
- Sand Casting
- Pressure Die Casting
- Injection Moulding
- High-End Precision Machining
- SPM Centers
- R&D Center
- UL Laboratory
- Tin and Zinc Plating Plants
- Powder Coating
- Tool Room
- Rubber Extrusion
- Nylon Tubing Extrusion
- 98% In House Manufacturing



Electrical Product Portfolio

- Grounding Products
- Compression Connectors
- Mechanical Connectors
- Power Distribution Blocks
- Insulated Connectors
- Conduit Bodies
- Weatherproof Products
- Zinc Die Cast Fittings
- Steel EMT Fittings
- AC Disconnects
- Cable Glands
- Bussbars
- Solar Connectors



- Central distribution center in Edison, NJ
- 5 strategic stocking locations in United States
- Over 1000 + SKU's in stock
- No order minimum
- \$1000 freight allowed

OEC manufactures the complete line of aluminum compression lugs and splices. OEC's compression lugs and splices are UL-listed with over 70 crimping tools across various manufacturers, hence minimizing the need for a special tooling investment. OEC guarantees a 5-year warranty on its compression lugs and splices.

Key Highlights

Construction

OEC Duracrimp® Lugs & Splices are manufactured using high strength Aluminum or Copper seamless Tubing, ensuring excellent electrical conductivity and durability.

Chamfered finish

Designed with a chamfered wire entry, OEC connectors make conductor insertion smooth and effortless, saving installation time.

Electro-Tin Plated

Electro-tin plated for maximum corrosion resistance.

Color-Coded

OEC Duracrimp® Lugs & Splices features color coded bands to ensure quick and easy identification.

Pre-Filled with Oxide Inhibitor

Pre-filled with a protective oxide inhibitor to prevent corrosion, ensuring long-lasting performance. For Aluminum Lugs & Splices only.

Range-Taking Features

OEC Duracrimp® Lugs & Splices accommodates a wide range of wire sizes, reducing the need for multiple SKU's and simplifying inventory management.

Tooling Compatibility

Duracrimp® Lugs & Splices are UL Listed with over 70 crimping tools from various manufacturers. Marked location on color coded bands ensure accurate crimp positioning, guaranteeing proper and secure installations every time.



Certifications

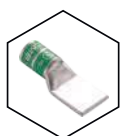


- UL486A/B Listed for Wire Connectors
- UL467 Listed for grounding and bonding applications For Copper Lugs & Splices only
- UL Listed and CSA Certified with industry standard compression tools
- Listed for use with class B & C, flex class G, H, I, K, M & DLO cables

Configurations



Short Barrel



Blank Tang



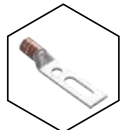
Narrow Tang



Break Away



Long Barrel



Slotted Tang



Flared Entry



Splices
Standard & Long

OEC's Orion Pre-Insulated Connectors are designed and engineered to provide a safe, secure, and efficient solution for tapping into electrical circuits. Suitable for use in wet & dry locations, for parallel runs of primary power conductors or connecting DLO or flex cables. Orion Pre-Insulated Connectors are available in broad range of sizes, ports and configurations to match the needs of any installation.

Key Highlights

Removable Port Plugs

Easy to remove and replace, allowing for quick access and maintenance without disrupting the system.

Pre-Filled with Oxide Inhibitor

Pre-filled with a protective oxide inhibitor to prevent corrosion, ensuring long-lasting performance.

Ergonomic Design

Designed for comfort and ease of use, reducing strain during installation and maintenance.

Abrasion & Chemical Resistant

Built to withstand harsh environments, offering superior durability against wear and chemical exposure.

Range Taking Features

Accommodates a wide range of wire sizes, reducing the need for multiple SKU's and simplifying inventory management.

Certifications



- cULus Listed
- Suitable for use on the line side of service equipment
- UL Listed for FLEX conductors (Class G, H, I, K, M & DLO)
- UL94 and UV Stabilized material with V0 Flammability

Configurations



Single Sided Entry



Dual Sided Entry



Insulated Inline Splice



Insulated Multi-Tap Connectors
Alternate Entry with Mounting



Single Sided Entry
with Mounting



Dual Sided Entry
with Mounting



Insulated Inline Splice
Double Stud



Insulated Multi-Tap Connectors
Alternate Entry

14 AWG to
750 Kcmil

2 - 14
Ports



C
L
E
A
R
&
B
L
A
C
K

Ground rods & clamps

OEC offers the complete range of copper-bonded and galvanized ground rods along with clamps available in various configurations. Manufactured from high-quality cast bronze alloys, OEC grounding clamps are ideal for direct burial applications.



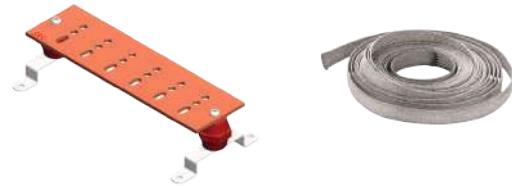
Solar Grounding

OEC manufactures various types of lay-in type connectors for solar applications.



Buss Bars & Braids

OEC manufactures the complete line of copper buss bars and braids, which are available with electro tin plating. OEC is also known for industry leading turn around times for manufacturing customized buss bars.



Terrafix® Irreversible Grounding

OEC Terrafix® grounding products features the complete line of compression and mechanical connectors, that meet all grounding and bonding requirements of national and local electrical codes. Terrafix® delivers safe installations and labor savings compared to exothermic grounding. products deliver maximum conductivity and minimal contact resistance, ensuring reliable and efficient performance over time.



Certifications



- UL486A/B Listed for Wire Connectors
- UL467 Listed for grounding and bonding applications
- CSA certified to standard 22.2

Configurations



Clamps



C Taps



Mechanical Lugs



Ground Braids



Neutral Bars



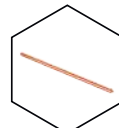
Accessories



Solar



Buss Bars



Ground Rods



Irreversible Grounding

Mechanical grounding solutions from OEC offer safe and reliable connections which are designed to meet both national and local building codes.

Split bolts

Approved for electrical power, grounding/bonding, and direct burial applications, OEC split bolts are manufactured from high strength copper alloy - highly resistant to corrosion and season cracking. OEC split bolts can be used with a wide range of copper solid, compact, compressed, concentric, copper weld conductors, and rebar.

Neutral Bars

Designed to handle high current loads, OEC neutral bars ensure efficient power distribution and stable electrical flow across various industrial, commercial, and residential applications. OEC manufactures customize neutral bars for various OEM's as per spec.

Mechanical lugs

Electro-tin plated to ensure minimum contact resistance and corrosion protection, OEC mechanical lug manufactured from high strength aluminum alloys. OEC mechanical lugs can be used in copper or aluminum conductors.

Shear Bolts

OEC shear bolt lugs & splices feature a compact, range-taking design for easy installation without the need for crimp tooling or dies. Dual-rated for copper and aluminum conductors, they are UL486A/B listed and tin-plated to reduce galvanic corrosion and oxide build-up. the specially designed bolts simplify installation and provide reliable connections across a wide range of sizes.

Certifications



- UL486A/B Listed for Wire Connectors
- UL467 Listed for grounding and bonding applications
- CSA certified to standard 22.2

Configurations



Mechanical Lugs



Box Terminals



Solar Combiners



Split Bolts



Service Post



Panel Boards



Neutral Bars



Tap Connectors



Power Distribution Blocks



Shear Bolts

Function

OEC power distribution blocks are designed to distribute electrical power from a single source to multiple circuits safely and efficiently. They provide a centralized point for connecting and organizing power feeds, offering features like overload protection and easy installation in electrical panels or systems.

Features

- IP20 finger safe protection
- Wide range
- Easy integration
- Flexibility of wiring

Easy Integration

OEC power distribution blocks feature a compact and modular design to allow an easier integration into the equipment for either din rail mounting or direct panel mounting.

Improved Safety

OEC power Distribution blocks provide a secure and enclosed environment for power connections, reducing the risk of electrical hazards and ensuring the safety of technicians and users.

Flexibility and Scalability

To reduce inventory, assembly time and labor, modular single-pole blocks snap-together for tool-less assembly of multiple poles at point of use.

Certifications

- Compliant with IEC 60529 and IP-20 standards (requires covers)
- cULus listed AL9CU per UL 1953 for use with copper or aluminum conductors
- CSA certified to standard 22.2



Electrical Rating

- Voltage : 600 V
- Temp : 90°C

Standard Material

- Connector: Aluminum
- Base: Nylon 66

Configurations

PDB



PDBU



PDA



PDAU



Key Highlights

Material

Die cast copper-free aluminum construction is lightweight and corrosion-resistant for long, reliable service.

Threaded Hubs

NPT threads allow rigid and intermediate metal conduit to be screwed directly into the conduit body.

Easy Access

Conduit bodies provides easy access to the interior of conduit system for pulling inspection and routine maintenance.

Rigid Conduit or IMC

Seires E® conduit bodies can be attached to either rigid conduit or IMC when it is necessary to correct or change the direction of conduit runs.

Cover & Gasket

Seires E® conduit bodies are available preassembled with die-cast/stamped aluminum/steel covers and neoprene gasket for protecting inner wiring system from dust, water and most other liquids.

Applications

Commercial & Industrial

Ideal for use in buildings, factories, and warehouses to ensure safe routing and protection of electrical cables.

Residential

Perfect for residential installations, providing reliable and safe electrical connections.

Outdoor & Harsh Environments

Weather-resistant for outdoor installations, ensuring electrical systems stay safe and functional in tough conditions.

Certifications

- cULus listed
- NEMA 3R
- 2020 NEC® compliant



Standard Finish

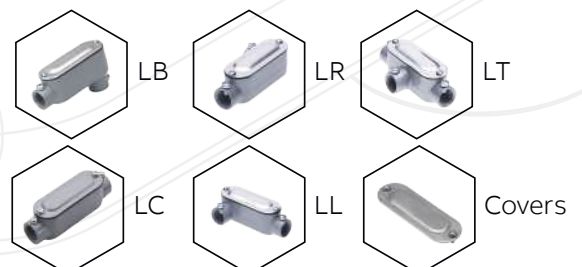
- Premium epoxy powder coated

Standard Material

- Copper free aluminum die-cast



Configurations



Key Highlights

Built for the Outdoors

Dry-shield® weatherproof solutions are engineered to endure the toughest environmental conditions, providing reliable protection for electrical systems in outdoor and exposed locations.

Durability You Can Trust

Made from high-quality, corrosion-resistant materials, our weatherproof products are designed for long-lasting performance, reducing the need for maintenance and repairs.

Comprehensive Protection

Whether it's protecting junction boxes, conduit systems, or connections, OEC Dry-shield® products keep your electrical components safe from water, dust, and other damaging elements.

Easy Installation & Maintenance

Designed for quick and efficient installation, OEC Dry-shield® products ensure that your electrical systems stay protected without complicated procedures. Plus, their robust design reduces the need for frequent maintenance.

Certifications

- cULus Listed
- Boxes and covers suitable for use in wet locations
- NEMA 3R Rated
- 2020 NEC® compliant



Standard Finish

- Powder Coated

Standard Material

- Die Cast Aluminum

Available in Multiple Colors



Configurations



1 Gang Box



2 Gang Box



1 Gang Extension Ring



Accessories



Round Extension Box



2 Gang Extension Ring



Flip Covers

Unisteel® conduit fittings come with consistent and reliable quality in commercial, industrial and residential markets. OEC fittings are manufactured in accordance with the highest quality standards to maintain consistent performance.

Extra-Thick Electroplated Zinc Finish

Ensures corrosion resistance while the clear chromate coating gives the fittings their quality finish.

Superior Quality and Design

Strict tolerances throughout fitting ensures a straight conduit run with no sagging over extreme lengths. Chamfered entry provides lead-in for conduit insertion.

Extra-Large Head Tri-Drive Set Screw

Accommodates Phillips, slotted and square drives.

Enhanced Locknut Construction

Heavy-duty turned sharp teeth, double-threaded.

Concrete Tightness

Designed to be concrete-tight when taped, making them suitable for use in concrete encasements.

Standard Material

- Steel

Standard Finish

- Zinc-electroplated



Configurations



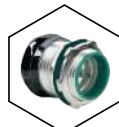
Compression Connector (Steel) Uninsulated Throat



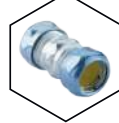
Compression Connector (Steel) Insulated Throat



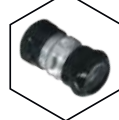
Raintight Compression Connector (Steel) Uninsulated Throat



Raintight Compression Connector (Steel) Insulated Throat



Compression Coupling (Steel)



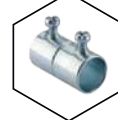
Raintight Compression Coupling (Steel)



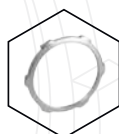
Set Screw Connector (Steel) Uninsulated Throat



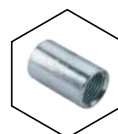
Set Screw Connector (Steel) Insulated Throat



EMT Connectors and Couplings Set Screw Coupling (Steel)



Rigid Locknut (Steel)



Rigid Coupling (Steel)



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OEC USA Inc.
106 Northfield Avenue,
Edison, NJ 08837.
+1 732-479-0469

www.oec-americas.com