

# Heavy-Duty Connectors >

Supporting industrial automation and production line expansion, Heavy-Duty Connectors (HDCs) provide robust durability, high power capacity, modularity and industry-standard compatibility to seamlessly integrate a variety of devices.

## ADVANTAGES AND FEATURES

### Offers high current and voltage ratings

Voltage capacities up to 1,000V and current capacities up to 200.0A, with as many as 216 10.0A poles (108 circuits) for high-circuit-count connections, support high-power applications and limit the need for multiple connectors.

### Improves performance

Heavy-duty, impact-resistant enclosures with asymmetric guide rails; stainless steel pegs; and spring-loaded, lockable metal covers help prevent assembly errors and deliver safe and reliable long-term operation.

### Simplifies design work

Hybrid monolithic power/signal inserts optimize space, avoid lengthy assembly times and simplify design and maintenance work by combining multiple functions into one plug.

Current	Up to 200.0A
Voltage	Up to 1,000V
IP (EN 60529) Ratings	IP66, IP68, IP69
NEMA Ratings	4, 4X, 12
Circuit Counts	3 to 108
Operating Temperatures	-40 to +125°C

### Delivers security and robustness for harsh environmental conditions

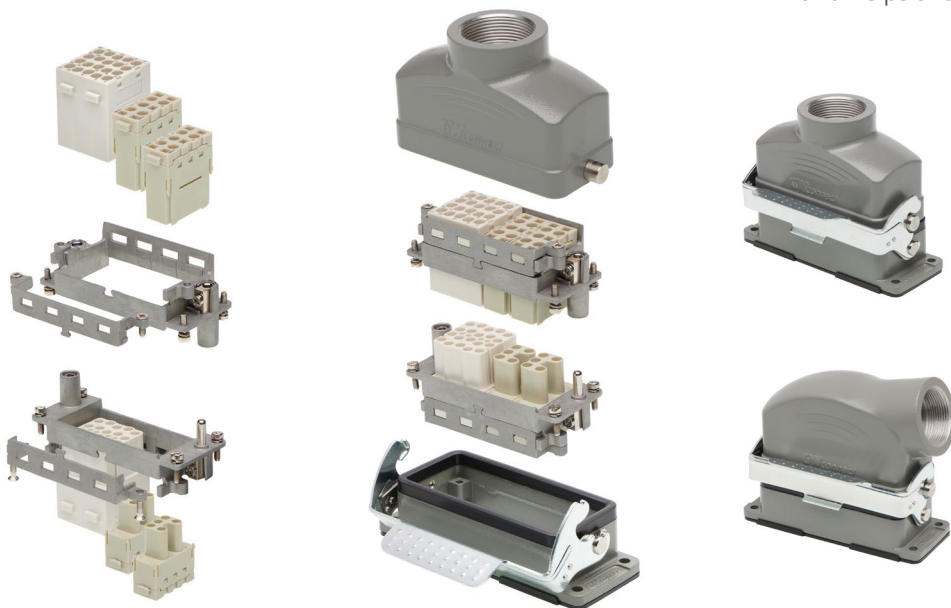
Corrosion-resistant housings with oil-resistant seals rated IP66, IP68 or IP69 and NEMA ratings of 4/4X/12 enable use in applications subject to dust and water ingress, while robust construction enables reliable operation between -40 and +125°C.

### Enhances design flexibility

Modular inserts deliver a wide range of options for combining customized power, signal, circular-bus, high-voltage and pneumatic connections in one plug to meet application needs and minimize design limitations.

### Streamlines system integration

Compatibility with a wide range of devices and compliance with industry standards eases system integration and helps avoid time delays.



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## MARKETS AND APPLICATIONS

### Industrial Automation

Complex machines  
Drives  
High-density signal devices  
Hybrid power/signal connections  
Material-handling systems  
Motors  
Robots  
Warehouse and logistics equipment

### Automotive

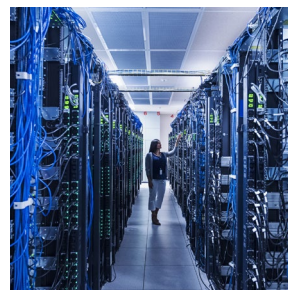
Automotive manufacturing facilities  
Complex machines  
Robots

### Heavy Machinery

Agricultural machinery  
Commercial and industrial vehicles  
Cranes  
Heavy machines  
Marine and offshore systems  
Non-passenger commercial vehicles  
Railway and subway infrastructures



*Energy Storage Systems*



*AC Power  
Distribution Equipment*



*Automotive Manufacturing  
Facilities*

### Electrical and Power

Building automation  
Building management systems (BMS)  
Charging infrastructure devices  
Energy storage systems  
Renewable energy devices  
Smart grid installations

### Power for Data Centers

AC power distribution equipment  
Power reliability systems

## SPECIFICATIONS

### Reference Information

Packaging: Box, bag  
Designed in: Millimeters  
Configurations: Monolithic or modular inserts  
RoHS: Yes  
Certifications: UL, CSA, IEC  
IP Ratings: IP66, IP68 or IP69  
NEMA Ratings: 4, 4X or 12

### Electrical

Voltage (max.):  
Monolithic inserts—830V  
Modular inserts—1,000V  
Current (max.):  
Monolithic inserts—80.0A  
Modular inserts—200.0A

### Mechanical

Housing Sizes: 3A to 48B  
Terminal Types: Crimp, screw, spring-loaded, push-in  
Circuit Sizes: 3 to 108  
Poles: Up to 216

### Physical

Enclosures: Aluminum alloy, thermoplastic  
Contact Area Plating: Silver (standard)  
or gold (upgraded)  
Operating Temperatures: -40 to +125°C