

Connectors for Marine Applications



• APTIV •

Aptiv is a global technology company that enables a safer, greener and more connected future with scalable hardware and software solutions.

Our **Connection Systems** business offers a full range of advanced connectivity products for power and data applications.

Our portfolio includes low- and high-voltage connectors for conditions ranging from light-duty to harsh environments, as well as high-speed data connectors supporting increasing bandwidth requirements.



Aptiv Connection Systems

PIONEERING MODERN CONNECTIVITY SOLUTIONS

Global Excellence in Connectivity

Aptiv Connection Systems stands at the forefront of electrical and electronic connectivity innovation, delivering premium connection systems that consistently exceed global customer expectations. Our cutting-edge technologies and processes are shaped by deep customer insights and a relentless pursuit of innovation. We remain dedicated to collaborating with partners to develop connectivity solutions that meet the increasingly demanding quality and performance standards in today's automotive and transportation sectors.

Advanced Manufacturing & Design Capabilities

Leveraging state-of-the-art manufacturing technologies and comprehensive design services, we create high-performance, cost-efficient connection systems available as both off-the-shelf and custom solutions. Our end-to-end approach encompasses design, manufacturing, assembly, validation, and delivery of electrical/electronic connectivity products that satisfy the most stringent industry requirements.

Versatile Solutions Portfolio

Our diverse product lineup spans from signal-level to high-power connection systems, featuring both unsealed and sealed, ergonomically designed connections for in-line, device and header applications. This comprehensive offering positions Aptiv as a trusted single-source connectivity partner.

Transportation Market Applications

Aptiv Connection Systems delivers specialized connectivity solutions across various transportation sectors:

- **Automotive**
- **Medium and heavy-duty trucks**
- **Agricultural equipment**
- **Construction machinery**
- **Marine applications**
- **Mass transit systems**
- **Recreational vehicles**
- **Motorcycle technology**

The Aptiv Difference

Comprehensive Product Ecosystem

Extensive range of connectivity solutions

Pioneering Interconnect Technologies

At the cutting edge of the industry

Cross-Industry Expertise

Deep knowledge across multiple connector applications

Holistic Systems Approach

Integrated solutions rather than isolated components

Customer-Centric Innovation

Solutions developed around real client needs

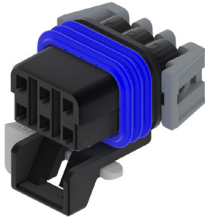
Exceptional Service Standards

Consistently exceeding customer expectations

Robust Global Presence

Seamless support across international markets

Product Series for Marine Applications



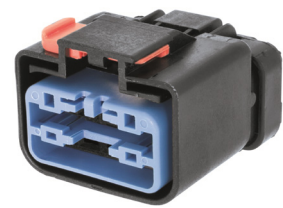
METRI-PACK

SAE J2030-compliant with premium silver interface plating for superior CV performance



GT

Connector series featuring clean body terminals and low connector engage force in a small package size



APEX 2.8 Sealed

Heavy-duty performance and an ergonomic design with the industry's highest current rating

CONNECTOR & TERMINAL RANGE

- 150, 280, 480, 630, 800 Series
- 1- to 16-way configurations
- Inline, headers and mixed
- Max current: 14A (150) up to 60A (800)
- 125°C max temperature
- Cable sealed
- Sn, Ag, and Au plating

- 150, 280 Series
- 2- to 20-way configurations
- Inline, headers, mixed and LeverLock
- Max current: 15A (150), 25A (280)
- 125°C max temperature
- Cable sealed
- Sn, Ag, and Au plating

- 2- to 14-way configurations
- Inline and device
- 40A max current
- 150°C max temperature
- Mat sealed, IP68 rated

FEATURES & BENEFITS

- Comprehensive product range for enhanced design flexibility and application versatility
- Support for both high-current and low-energy circuits for maximum electrical adaptability
- Robust terminals that assure correct alignment and connection integrity
- Compatibility with global-standard male blade dimensions for seamless integration
- Connection Position Assurance (CPA) and Terminal Position Assurance (TPA) for superior connection reliability
- Environmental sealing for exceptional protection against temperature extremes, chemicals and abrasion

- Tangless terminals that deliver superior durability and performance
- Low insertion force to enhance reliability and ergonomics
- Pump-handle primary lock for lower engage and easy disassembly
- Secondary lock, CPA and TPA that ensure connection integrity
- ISO blade standards
- Space-optimized packaging to maintain electrical performance while optimizing footprint
- Mixed-terminal capability for design flexibility
- Protected seal interface for consistent reliability in challenging environments

- Most compact 2.8 mm system in the industry
- Fully protected interface seal
- Connection integrity through Primary Lock Reinforcement (PLR) and CPA
- Mechanical polarization to eliminate mis-mates
- Proven environmental sealing in harsh environments

TYPICAL APPLICATIONS

- Engine compartment connections
- Ignition module connections
- Speed, temperature and pressure sensor motor connectors
- Boat lighting systems
- Deck and machinery spaces
- Boat gauges
- Transom harnesses
- Bilge pump power and wiring
- Trailer wiring

- Engine and powertrain connections for boats and jet skis
- Ignition module connections
- Speed, temperature and pressure sensor marine connectors
- Boat lighting systems
- Deck and machinery spaces
- Boat gauges
- Bilge pump power and wiring
- Trailer wiring

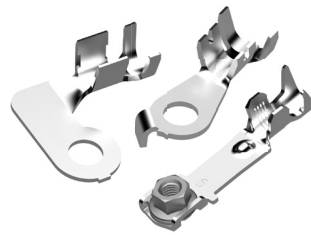
- Electronic power steering helm/ joystick applications
- Engine and powertrain connections for boats and jet skis

Product Series for Marine Applications



HES

Circular connectors engineered for uncompromising performance in extreme environments



RING TERMINALS

Versatile solutions for low- and high-voltage applications with crimped, welded or sealed anti-rotation capabilities

CONNECTOR & TERMINAL RANGE

- 24 Shell connectors
- 6 Terminal patterns
- Standard/reverse configurations
- Thin wall, regular wall and heavy wall
- 19mm, 22mm and 25mm conduit adapters, straight and right angle
- 50- and 60-way header systems
- Pin/sleeve terminals compatible to MIL 390329 industry standard cavity
- Ni or Au plating
- More than 200 configurations available
- Sealed or unsealed options
- Small and large cross-wiring
- Low-and high-voltage solutions
- Several mating stud options
- Sn or Ag plating

FEATURES & BENEFITS

- 3-rib seal design that provides up to 57% higher performance
- Up to 44% higher terminal retention while reducing plugging force
- Validated to SAE J2030
- Improved electrical performance in HES terminals
- Ergonomic harness assembly
- Assembly benefits: lock window and alignment arrows, and color-coordinated seals
- Anti-rotation feature
- Stackable ring terminals linked at the screwing point
- Aluminum wire option
- Integrated nut options for easier assembly
- Anti-corrosion properties
- Specialty terminals designed for demanding applications

TYPICAL APPLICATIONS

- Engine and powertrain connections for boats, jet skis
- Navigation systems
- Bilge Pumps
- Livewell Systems
- Base of a Keel-Stepped Mast
- Switch Panel Connections
- Engine and powertrain connections for boats, jet skis
- Terminal blocks
- Battery posts
- Bus bar connections
- Fuse block connections
- Pump wiring
- Electronic connections
- Boat lighting systems



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