



# 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

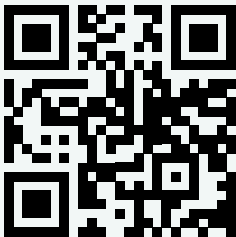
- Engine and powertrain connections for boats, jet skis
- Navigation systems
- Bilge Pumps
- Livewell Systems
- Base of a Keel-Stepped Mast
- Switch Panel Connections
- Engine and powertrain connections for boats, jet skis
- Terminal blocks
- Battery posts
- Bus bar connections
- Fuse block connections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



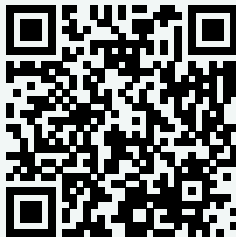


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