



# APTIV

## Product Line Card



# • APTIV •



Since the earliest days of automotive technology, the industry has relied on Aptiv for innovation and quality in electronics. As a fully authorized distributor of Aptiv connectors, TTI is proud to stock the world's leading transportation components, systems and technology, and offer the full range of Aptiv connectors and custom design services for the automotive and commercial transportation industries.

Reach your local sales team at **1.800.CALL.TTI**

# APEX™ Connection System

- Top-of-the line performance
- Highest current rating among competitors
- Ergonomic design



## Terminals

- High-conductivity copper alloy
- Raised duel rib surface and spring protection resists stress relaxation

## Technical Characteristics

- Temperature Range: -40 to +150 °C

Available Configurations	
Blade Width	1.2, 1.5, 2.8mm
Cable Range	0.5 - 4.0mm <sup>2</sup>
Base Material	High-grade Copper Alloy
Plating	Sn, Ag, Au

## Housings

- CPA capability for additional lock assurance
- Pre-assembled (Mat Sealed) for efficient assembly
- Optional wire dress/back shells available
- ErgoMate™ ergonomic mechanical assist available on 24-way

T4

V3

S3

## Performance Rating

T4 – Temperature Range: -40 to +150 °C

V3 – Vibration Profile: On-engine

S3 – Sealing Rating: Sealed (with High-pressure Spray)

Available Configurations	
Cavity Count (Ways)	2, 3, 4, 6, 10, 14, 16, 24
Cavity Configurations	1.2, 1.5, 2.8, Mixed
Material	Non-V0
Sealing	Sealed (Mat and Cable) & Unsealed
Genders	Male and Female

# HES™ Connection System

- Interchangeable industry mating interface
- Superior protection against environmental forces
- Designed to outperform competition



## Terminals

- High-current performance using high-conductive materials
- Stainless steel sleeve provides stability and protection to contact
- Overlapping wing design for exceptional strain relief, larger OD cable
- Crimp stability using tin in the crimp area
- Wide range of cable sizes accommodated
- Interchangeable with industry standard terminals
- Wave spring design maintains seal compression in high-vibration

## Technical Characteristics

- Temperature Range: -40 to +150 °C

Available Configurations	
Blade Width	1.2, 1.5, 2.8mm
Cable Range	0.35 – 6.0 mm <sup>2</sup>
Plating	Nickel or Gold

## Housings

- Better sealing capability than industry standard designs
- Better terminal retention than industry standard designs
- Interchangeable with industry standard circular products
- Ergonomic design for ease of assembly
- Arrows simplify pre-engagement of locking collar
- Visual lock engagement window
- Color coded seals for different cable diameters and gender
- Sonic welded seal retainer

T4

V4

S3

## Performance Rating

T4 – Temperature Range: -40 to +150 °C

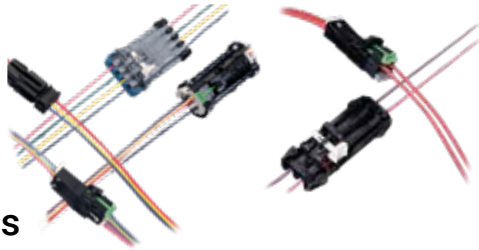
V4 – Vibration Profile: Extreme Vibration

S3 – Sealing Rating: Sealed (with High-pressure Spray)

Available Configurations	
Cavity Count (Ways)	19, 21, 23, 29, 31, 47 way
Cavity Configurations	1.0, 1.6, 2.4
Sealing	Mat Sealed
Genders	Male and Female

# Metri-Pack™ Connection System

- Long-standing footprint leadership
- Optimal heavy-duty performance at optimal cost
- Superior durability
- Application versatility



## Terminals

- Strength and stability of terminals help assure correct alignment
- Enhanced terminals available with silver plating

## Technical Characteristics

- Temperature Range: -40 to +150 °C

Available Configurations	
Blade Width	1.5, 2.8, 4.8, 6.3, 8.0mm
Cable Range	0.35 – 8.0 mm <sup>2</sup>
Plating	Sn, Ag, Au

## Housings

- Validated to SAE J2030 Electrical Connector Standard (with silver-plated terminals), Volvo specs and other CV industry standards
- Connector Position Assurance (CPA) and Terminal Position Assurance (TPA) for superior reliability



## Performance Rating

**T4** –Temperature Range: -40 to +150 °C

**V3** –Vibration Profile: On-engine

**S2** –Sealing Rating: Sealed (with High-pressure Spray)

Available Configurations	
Cavity Count (Ways)	2-12 way
Cavity Configurations	1.5, 2.8, 4.8, 6.3, 8.0, Mixed
Sealing	Sealed and Unsealed
Genders	Male and Female

# OCS 1.5 Sealed Connection System

- Premium warranty performance
- Designed-in durability
- Optimum standard-duty performance
- Compact packaging design



## Terminals

- Crimps validated to SAE/USCAR-21
- 6+ sigma projected terminal reliability at 150,000 miles per USCAR-20 life test

## Technical Characteristics

- Temperature Range: -40 to +125 °C
- Resistance: < 8.0 mΩ
- Voltage Drop: < 8.0 mV/A
- Centerline Spacing: 3.50mm

Available Configurations	
Cable Range	0.13 - 2.0 mm <sup>2</sup>
Base Material	High-grade Copper Alloy
Plating	Sn, Ag

## Housings

- USCAR interface standards + 2 for 6 total indexes
- Compatible with industry standard interfaces
- Field-proven housing seal design
- Mat-seal and integrated retainer
- Cable seal versions available



## Performance Rating

**T4** –Temperature Range: -40 to +150 °C

**V2** –Vibration Profile: Engine profile

**S3** –Sealing Rating: Sealed (with High-pressure Spray)

Available Configurations	
Cavity Count (Ways)	2, 3, 4, 6, 8, 10, 12, 16
Cavity Configurations	1.5
Sealing	Mat Sealed
Genders	Male and Female



# Why Buy from the Specialist in Electronic Component Distribution?

Founded in 1971, TTI has steadily grown to become the world's leading interconnect, passive, electromechanical and discrete component distributor in the industry. The company was founded on the premise that passive component purchasing could be made more efficient by offering product specialization, customer-driven service, and proprietary supply chain solutions.



## Knowledgeable Product Experts

Specialization allows TTI product managers to provide much better product insight to support your manufacturing from design through production. TTI Specialists' commitment to our customers is key to our continued success.



## Broader and Deeper Inventories

TTI maintains extensive component inventories, stocking more than 500,000 part numbers in North America and over 850,000 globally – that's more interconnect, passive, electromechanical and discrete inventory available than from any other source.



## AIM - Advanced Inventory Management Platform

TTI's proprietary supply chain system is specifically designed for managing IP&E products and partnerships with premier manufacturers. This allows us to provide the BOM coverage necessary to deploy comprehensive solutions that reduce total cost of ownership and mitigate line down risk.

## Quality and Reliability

TTI is the first distributor to have all global warehouse locations ISO registered and currently are certified to ISO 9001 with AS9100C and ISO 14001 in North America, ISO 9001, EN 9100, ISO 14001 and EN 9120 in TTI Europe and ISO 9001 in TTI Asia.

**Year after year, customers rate our inventory availability, on-time delivery and accuracy among the very best in the industry – call your local TTI Specialists at 1.800.CALL.TTI and discover why.**

