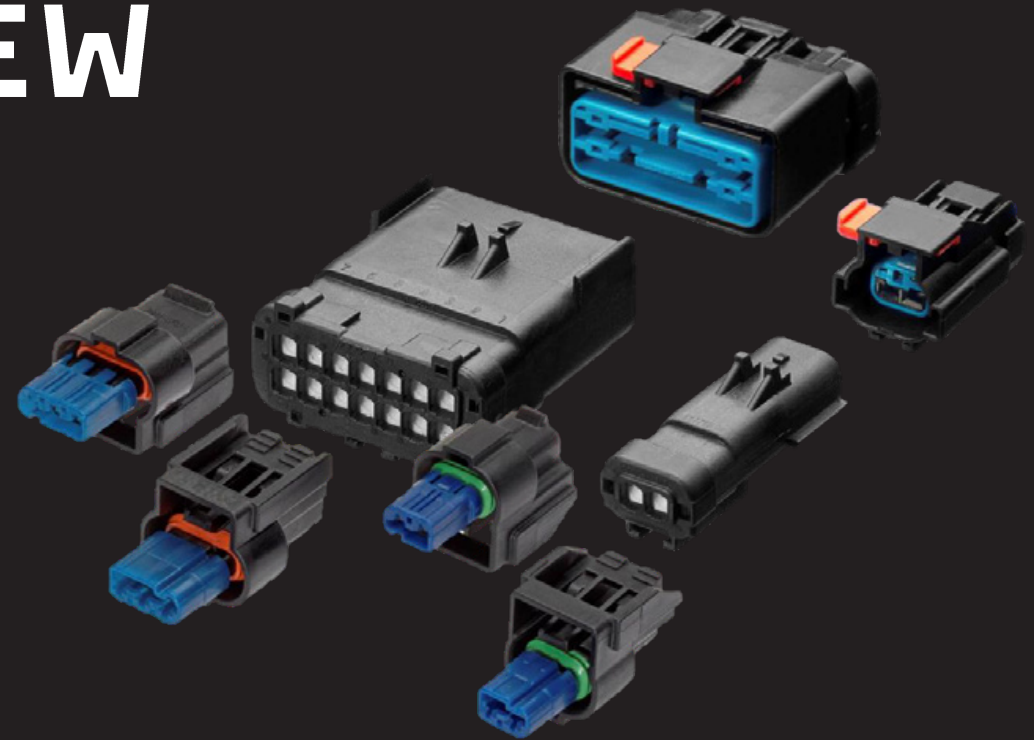


May 2019

AVNET<sup>®</sup> ABACUS

# APEX CONNECTION SYSTEM FAMILY OVERVIEW



• APTIV •

# Content

## Why APEX?

Market environment  
and value proposition

## Portfolio Overview

Portfolio scope

## Technical Overview

Design features

## Part Numbers

# Content

## Why APEX?

Market environment  
and value proposition

## Portfolio Overview

Portfolio scope

## Technical Overview

Design features

## Part Numbers

# The Challenge

- Higher current carrying capacity requirements
- Higher operating temperature and vibration
- Higher performance ergonomically designed connections are needed

# The Solution

**Presenting the APEX connection system family.** Our time-tested high performance and ergonomic solution delivering the industry's highest current rating.

AVNET<sup>®</sup> ABACUS



# Robust features, meaningful benefits

AVNET<sup>®</sup> ABACUS

## Heavy-duty performance

- High vibration and temperature rating
- Industry's severe application standard for the past 25 years
- Raised duel rib contact surface and spring protection for resistance against stress relaxation
- Optional wire dress / back shells
- Terminals are stamped using 100% in die process monitoring

## Highest current rating

- High conductivity copper alloy
- Multiple plating options available: Tin-Silver, Silver, Gold
- Low stress relaxation spring for high temperature operation

## Ergonomic design

- ErgoMate™ axial mechanical assist mating feature for ergonomic mating available on 24-way (55-way in development)
- Pre-assembled for efficient harness assembly
- Serviceable according to USCAR-12 design guidelines
- Provide the only mat seal 2.8mm terminal solution for more compact packaging

# Content

## Why APEX?

Market environment  
and value proposition

## Portfolio Overview

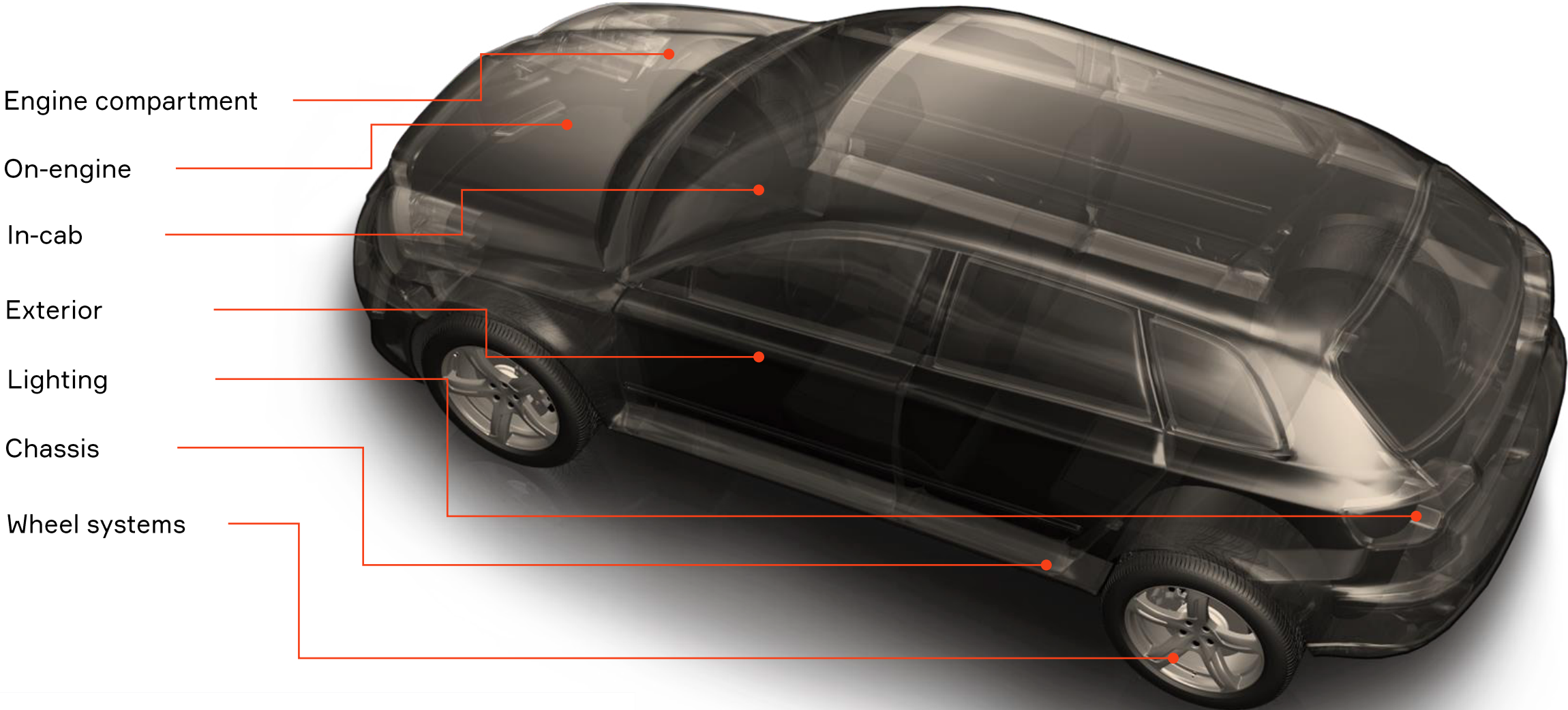
Portfolio scope

## Technical Overview

Design features

## Part Numbers

# Versatility of application





# A wide family range



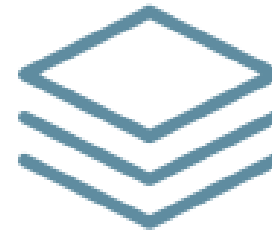
## Connectors

- Inline and device applications
- 2 through 57 way configurations
- Standard, SensoMate, Mixed, and ErgoMate series



## Terminals

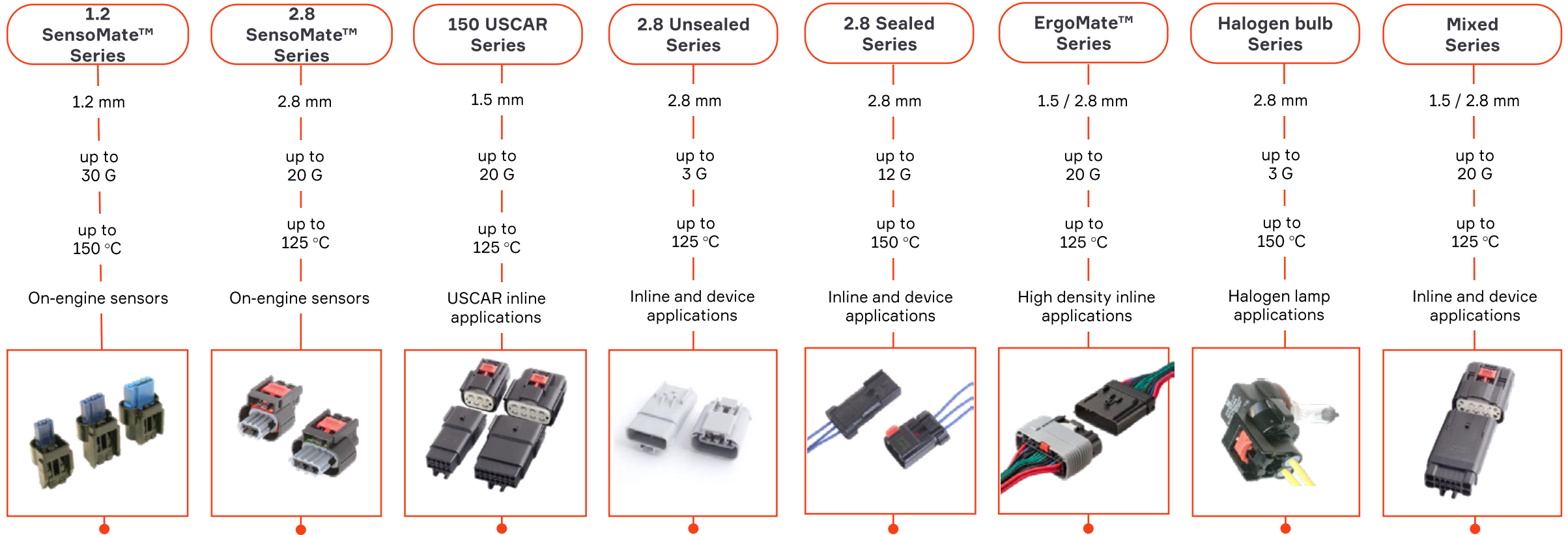
- Box & blade solution
- Two-piece terminal system
- 1.2mm, 1.5mm, 2.8mm, 6.35mm, 9.5mm
- Tin, tin-silver, silver, or gold plating



## Accessories

- 180° or 90° back shells
- Clips

# APEX® housing range



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# APEX® 1.2 SensoMate™ Series

AVNET ABACUS

Housing family



## Key features & benefits

- APEX® terminal technology and performance in our smallest package
- Single wire seal design
- 4.0 mm terminal center line spacing
- SensoMate 1.2 connectors mate to AK and USCAR 1.2 device interfaces
- Compliant with USCAR design guidelines and performance standards
- Heavy Duty - for diesel engine vibration and temperature duty cycles
- Superior single-piece housing construction
- Terminal Position Assurance (TPA) to detect partially installed terminals
- CPA available

## Performance characteristics

Sealing protection (up to)	IP 69k
Temperature range (up to)	-40°C to +150°C
Vibration performance (up to)	30 G
Terminal retention force (up to)	> 80 N
Terminal insertion force (up to)	< 30 N
Connector mating force	< 45 N
Available cavity configurations	2, 3, 4 way



**Application:** on-engine sensors

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# APEX® 2.8 SensoMate™ Series

AVNET ABACUS

Housing family



## Key features & benefits

- APEX® terminal technology and performance in our smallest package
- Single wire seal design
- 5 mm terminal center line spacing
- Compliant with USCAR design guidelines and performance standards
- Heavy Duty - for Diesel engine vibration and temperature duty cycles
- Superior single-piece housing construction
- Terminal Position Assurance (TPA) to detect partially installed terminals

## Performance characteristics

Sealing protection (up to)	IP 69k
Temperature range (up to)	-40°C to +125°C
Vibration performance (up to)	20 G
Terminal retention force (up to)	> 90 N
Terminal insertion force (up to)	< 15 N
Connector mating force	< 75 N
Available cavity configurations	2, 3, 4 way



**Application:** on-engine sensors

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# APEX® 150 Sealed Series

AVNET ABACUS

Housing family



**Application:** inline, door latch, safety power windows, and other sealed applications

## Key features & benefits

- Waterproof application with grommet seal
- Fully protected by interface seal
- 3.5 mm terminal center line spacing
- Easy to engage and disengage
- Compliant with USCAR design guidelines and performance standards
- USCAR footprint compatible
- Front Terminal Position Assurance (TPA)
- Mechanical polarization
- CPA available

## Performance characteristics

Sealing protection (up to)	IP 69k
Temperature range (up to)	-40°C to +125°C
Vibration performance (up to)	20 G
Terminal retention force (up to)	> 70 N
Terminal insertion force (up to)	< 30 N
Connector mating force	< 75 N
Available cavity configurations	10, 16 way

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# APEX® 2.8 Unsealed Series

## Housing family



**Application:** unsealed inline applications

### Key features & benefits

- Robust APEX® terminal technology and performance
- 5.25 mm terminal center line spacing
- Meets or exceeds USCAR performance standards and GMW3191
- Wire accommodation range - 0.35 mm<sup>2</sup> (22 AWG) to 5 mm<sup>2</sup> (10 AWG)
- Fully assembled connector for ease of use
- Terminal Position Assurance (TPA) to detect partially installed terminals
- CPA available
- Up to 7 mechanical polarizations available

### Performance characteristics

Sealing protection (up to)	IP 40
Temperature range (up to)	-40°C to +125°C
Vibration performance (up to)	3 G
Terminal retention force (up to)	> 90 N
Terminal insertion force (up to)	< 15 N
Connector mating force	< 90 N
Available cavity configurations	2, 3, 4, 5, 6, 10, 14 way

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# APEX® 2.8 Sealed Series

AVNET ABACUS

Housing family



**Application:** inline, power windows, fuel pump, fuel tank, and other sealed applications

## Key features & benefits

- Most compact 2.8 mm system in the industry
- Fully protected interface seal
- Mat seal design
- 5.25 mm terminal center line spacing
- Easy to engage & disengage by locking lever on small area
- Meets or exceeds USCAR performance standards and GMW3191
- Compliant with USCAR and ES design guidelines and performance standards
- Heavy Duty connectors for demanding environments
- Wire accommodation range - 0.75 mm<sup>2</sup> (20 AWG) to 4 mm<sup>2</sup> (10 AWG)
- Front Terminal Position Assurance (TPA)
- Mechanical polarization

## Performance characteristics

Sealing protection (up to)	IP 68
Temperature range (up to)	-40°C to +150°C
Vibration performance (up to)	12 G
Terminal retention force (up to)	> 90 N
Terminal insertion force (up to)	< 30 N
Connector mating force	< 75-142 N
Available cavity configurations	2, 3, 4, 5, 6, 10, 14 way

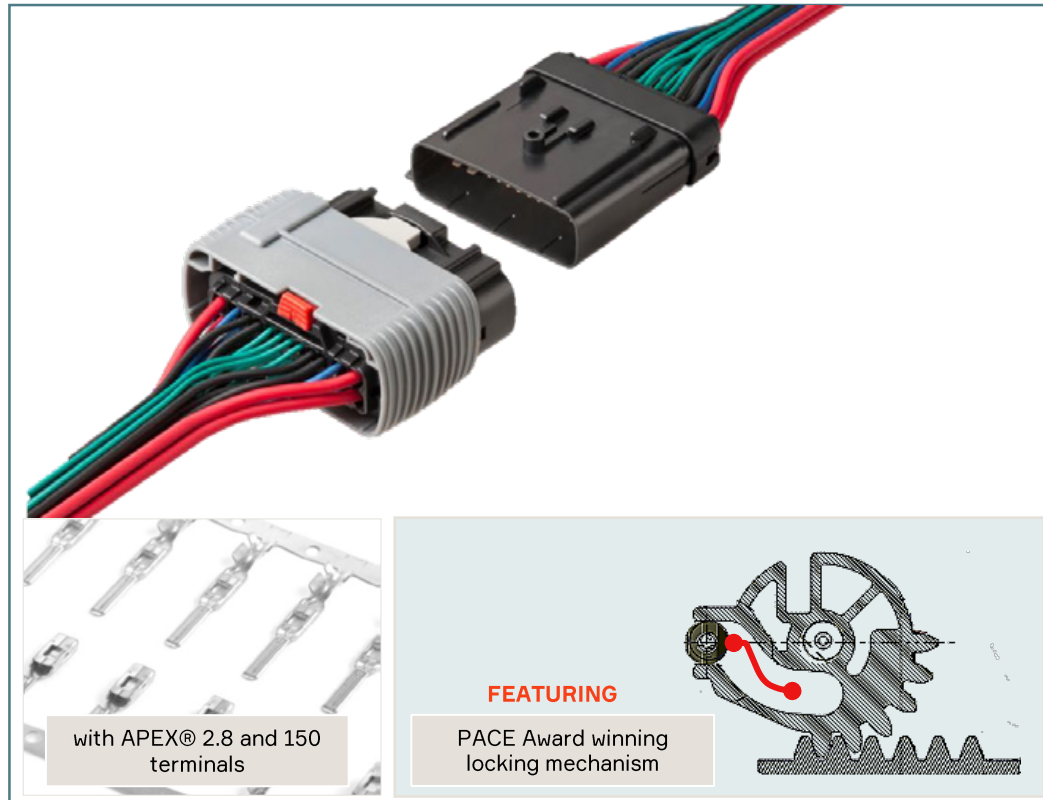
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# APEX® ErgoMate™ Series

AVNET ABACUS

Housing family



## Key features & benefits

- High reliability one-handed mating
- Simplified engagement system reduces the possibility of mismatching the connection system
- Unique geared cam and slider system is fully self-contained and provides a 3:1 mechanical advantage
- Mixed 150 and 2.8 configuration
- Compact packaging
- A lower-profile ergonomically friendly alternative to traditional lever assist
- Mat seal design

## Performance characteristics

Sealing protection (up to)	IP 69k
Temperature range (up to)	-40°C to +125°C
Vibration performance (up to)	20 G
Terminal retention force (up to)	>70 N / > 90 N
Terminal insertion force (up to)	< 30 N
Connector mating force	~ 55 N
Available cavity configurations	24 way



**Application:** sealed inline applications

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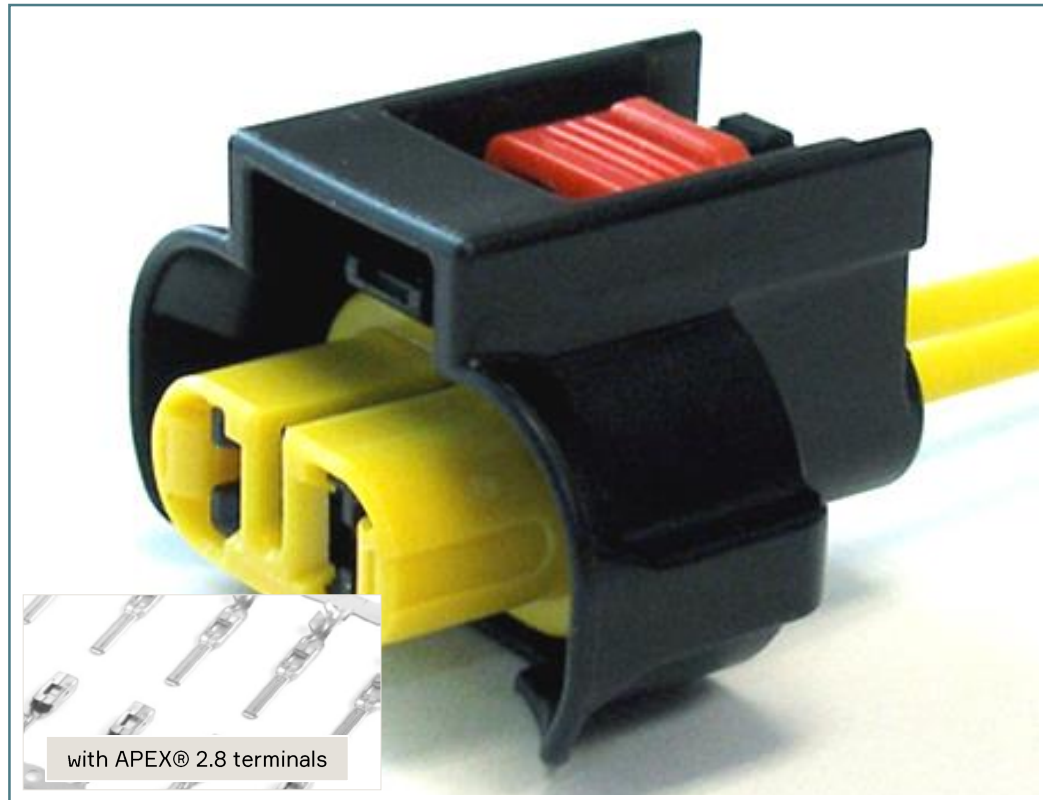
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# APEX® Halogen Bulb Series

AVNET ABACUS

Housing family



## Key features & benefits

- Robust APEX® 2.8 two-piece terminal system
- Single wire seal design
- Meets USCAR-12 & USCAR-25 design & ergonomic guidelines:
  - Ergonomic large thumb latch provide ease of de-latching with a gloved hand
  - Optional axial mate CPA feature reduces mismatching frequency
  - Axial PLR device secures locking of female terminal in connector housing
- Footprint defined by ISO specification IEC60061-1

## Performance characteristics

Sealing protection (up to)	IP 69k
Temperature range (up to)	-40°C to +150°C
Vibration performance (up to)	3 G
Terminal retention force (up to)	> 90 N
Terminal insertion force (up to)	< 30 N
Connector mating force	< 75 N
Available cavity configurations	2 way



**Application:** halogen bulbs

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# APEX® Mixed Series

Housing family



**Application:** sealed inline applications

## Key features & benefits

- Mixed 150 and 2.8 configuration
- Mat seal design
- Wide wire gage range
- Primary Lock Reinforcement (PLR)
- CPA available

## Performance characteristics

Sealing protection (up to)	IP 69k
Temperature range (up to)	-40°C to +125°C
Vibration performance (up to)	20 G
Terminal retention force (up to)	>70 N / > 90 N
Terminal insertion force (up to)	< 30 N
Connector mating force	< 75 N
Available cavity configurations	14 way

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# APEX® terminal range

## 1.2 Series

1.2 mm

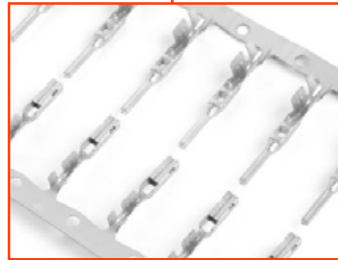
up to  
20 A



## 1.5 Series

1.5 mm

up to  
20 A



## 150 Series

1.5 mm

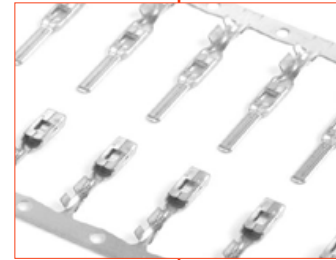
up to  
25 A



## 2.8 Series

2.8 mm

up to  
40 A



## 6.35 Series

6.35 mm

up to  
50 A



## 950 Series

9.5 mm

up to  
188 A



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# APEX® 1.2 Series

AVNET ABACUS

Terminal family



## Key features & benefits

- High current carrying capacity
- APEX® technology
- Design compatible with a wide range of connector sealing technologies (single wire sealing, mat seal)
- Suitable for secondary lock
- Tin, tin-silver, silver, and selective gold-plated versions available

## Performance characteristics

<b>Contact resistance</b>	< 0.5 mΩ
<b>Contact mating force</b>	< 5 N
<b>Contact unmating force</b>	< 1 N
<b>Range of wire gauge</b>	22-16 AWG / 0.35-1.5mm <sup>2</sup>
<b>Current carrying capacity</b>	
at 23°C up to approx. :	20 A
at 85°C up to approx. :	16 A
at 100°C up to approx. :	12 A
at 125°C up to approx. :	10 A

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# APEX® 1.5 Series

AVNET ABACUS

Terminal family



## Key features & benefits

- High current carrying capacity
- APEX® technology
- Design compatible with a wide range of connector sealing technologies (single wire sealing, mat seal)
- Suitable for secondary lock
- Tin, selective gold-plated versions available

## Performance characteristics

<b>Contact resistance</b>	< 0.5 mΩ
<b>Contact mating force</b>	< 5 N
<b>Contact unmating force</b>	< 1 N
<b>Range of wire gauge</b>	22-16 AWG / 0.35-1.0mm <sup>2</sup>
<b>Current carrying capacity</b>	
at 23°C up to approx. :	20 A
at 85°C up to approx. :	16 A
at 100°C up to approx. :	12 A
at 125°C up to approx. :	10 A

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# APEX® 150 Series (USCAR)

AVNET ABACUS

Terminal family



## Key features & benefits

- High current carrying capacity
- APEX® technology
- Heavy duty applications
- High temperature applications
- High vibration applications
- Tin, selective gold-plated versions available
- Meets or exceeds USCAR

## Performance characteristics

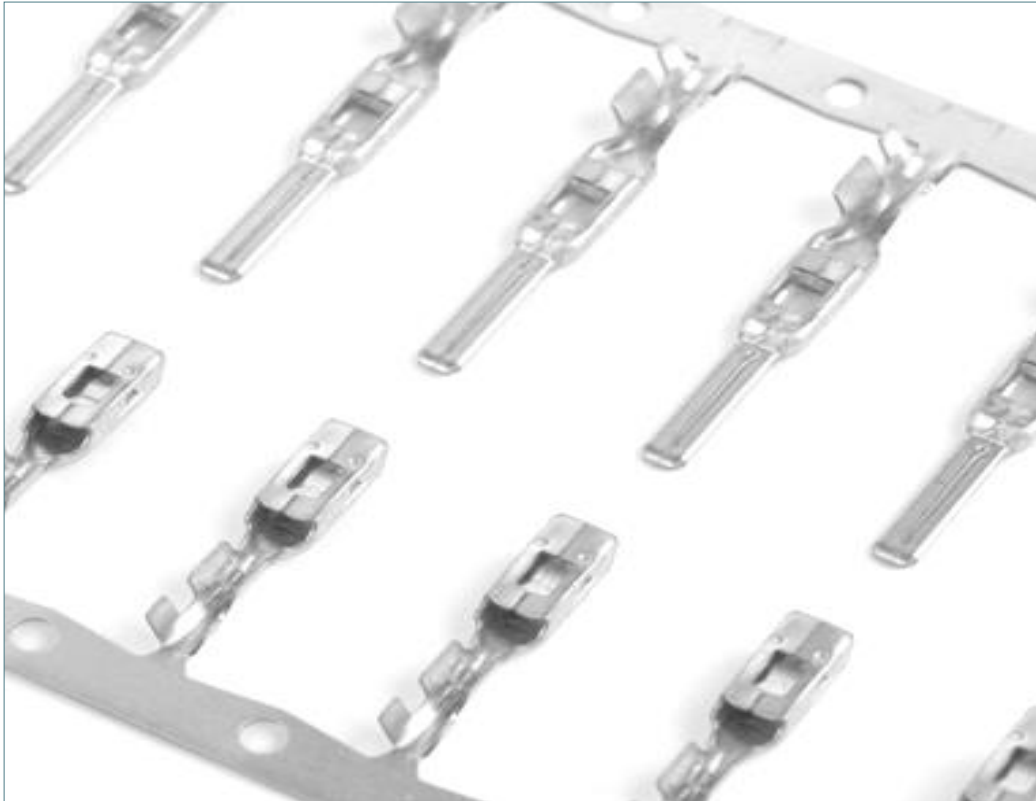
<b>Contact resistance</b>	< 0.5 mΩ
<b>Contact mating force</b>	< 3.5 N
<b>Contact unmating force</b>	< 1 N
<b>Maximum insulation</b>	1.93 mm
<b>Range of wire gauge</b>	22-16 AWG / 0.35-1.0mm <sup>2</sup>
<b>Current carrying capacity</b>	
at 23°C up to approx. :	25 A
at 85°C up to approx. :	25 A
at 100°C up to approx. :	22 A
at 125°C up to approx. :	12 A

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# APEX® 2.8 Series

## Terminal family



### Key features & benefits

- High current carrying capacity
- APEX® technology
- Low contact mating force
- Design compatible with a wide range of connector sealing technologies (single wire sealing, mat seal)
- Suitable for secondary lock
- Tin, silver, selective gold-plated versions available

### Performance characteristics

<b>Contact resistance</b>	< 2 mΩ
<b>Contact mating force</b>	< 5 N
<b>Contact unmating force</b>	< 2 N
<b>Range of wire gauge</b>	20-10 AWG / 0.5-5mm <sup>2</sup>
<b>Current carrying capacity</b>	
at 23°C up to approx. :	40 A
at 85°C up to approx. :	30 A
at 100°C up to approx. :	18 A
at 125°C up to approx. :	10 A

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# APEX® 6.35 Series

## Terminal family



### Key features & benefits

- High current carrying capacity
- APEX® technology
- Compatible with single wire sealing
- Suitable for secondary lock
- Tin, tin-silver, silver

### Performance characteristics

<b>Contact resistance</b>	< 2 mΩ
<b>Contact mating force</b>	< 10 N
<b>Contact unmating force</b>	< 5 N
<b>Range of wire gauge</b>	20-8 AWG / 0.5-8.0mm <sup>2</sup>
<b>Current carrying capacity</b>	
at 23°C up to approx. :	50 A
at 85°C up to approx. :	38 A
at 100°C up to approx. :	28 A
at 125°C up to approx. :	20 A

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# APEX® 950 Series

Terminal family

AVNET ABACUS



## Key features & benefits

- High current carrying capacity
- APEX® technology
- Compatible with single wire sealing
- Suitable for secondary lock
- Tin

## Performance characteristics

<b>Contact resistance</b>	< 1 mΩ
<b>Contact mating force</b>	< 30 N
<b>Contact unmating force</b>	< 20 N
<b>Range of wire gauge</b>	16-25mm <sup>2</sup>
<b>Current carrying capacity</b>	
at 23°C up to approx. :	188 A

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# Content

## Why APEX?

Market environment  
and value proposition

## Portfolio Overview

Portfolio scope

## Technical Overview

Design features

## Part Numbers

# Connector design overview

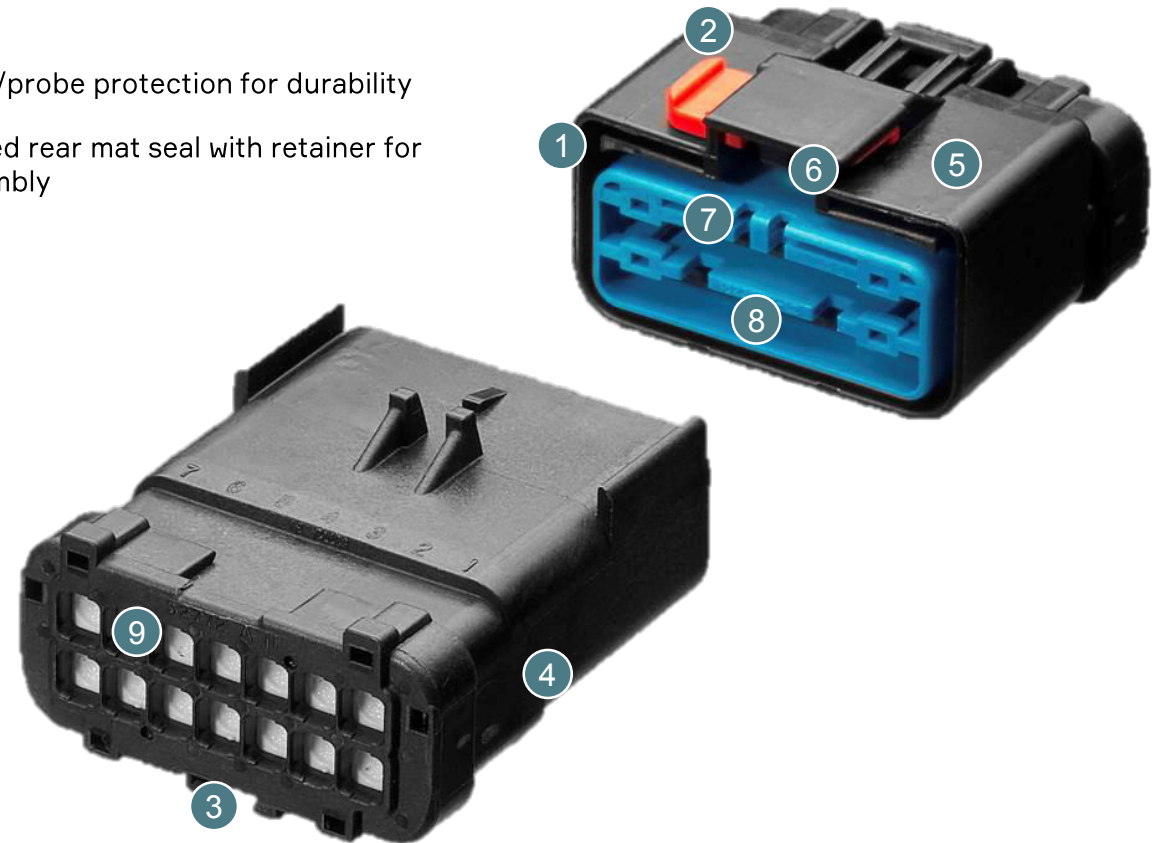
## Benefits

- Application flexibility
- Ease of assembly and service
- Compact packaging

## Design features

- 1 Polarization molded-in, up to 4 indexes, scoop proof
- 2 Pre-assembled integrated Connector Position Assurance (CPA) for ease of assembly
- 3 Clip slot on male connectors for mounting flexibility
- 4 Plastic is molded with smooth well-rounded corners for ergonomic assembly
- 5 Double shroud design, protected interface seal for better durability and handling protection
- 6 Primary connector lock, audible, tactile, one-hand operation
- 7 Pre-assembled integrated Terminal Position Assurance (TPA) for ease of assembly

- 8 Blade lead-in/probe protection for durability
- 9 Pre-assembled rear mat seal with retainer for ease of assembly



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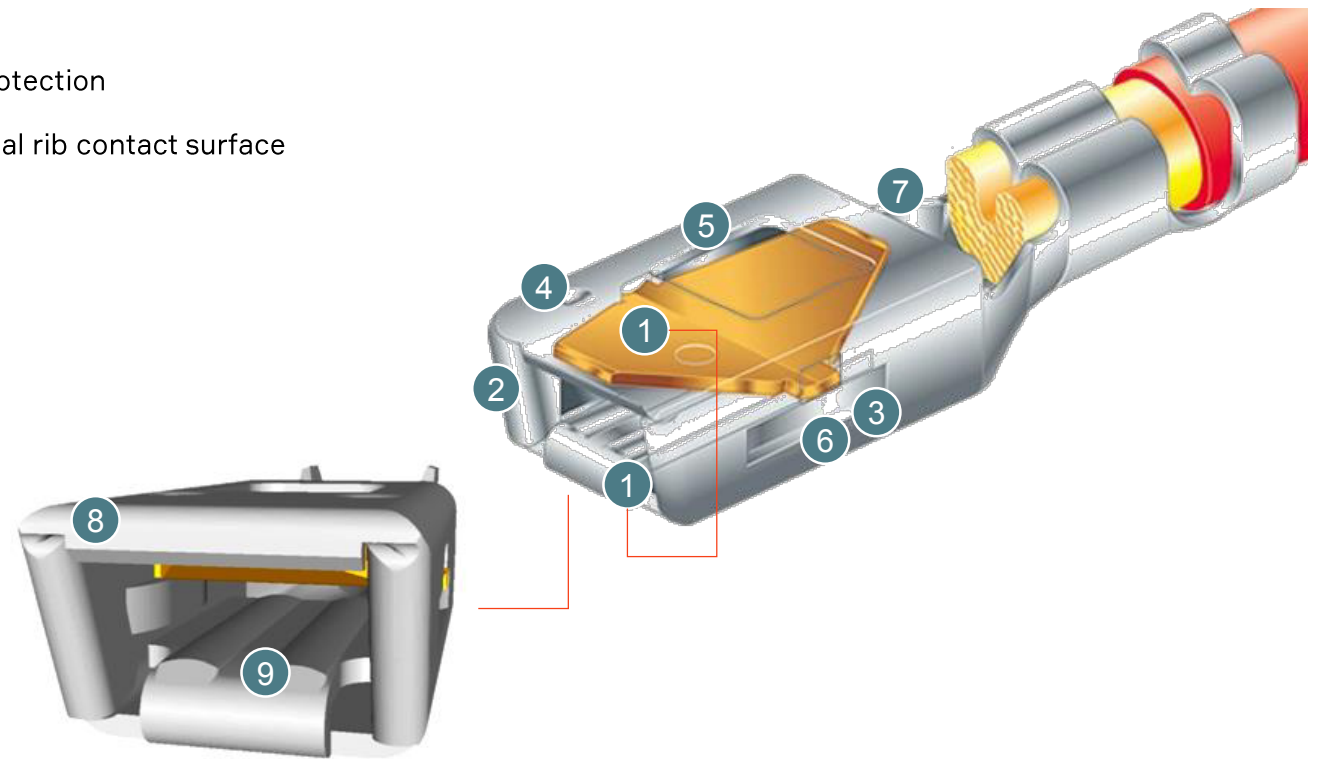
# Terminal design overview

## Benefits

- Two-piece construction with an integrated floating spring made of beryllium copper or copper nickel silicon
- Terminal designed to have high current carrying capacity

## Design features

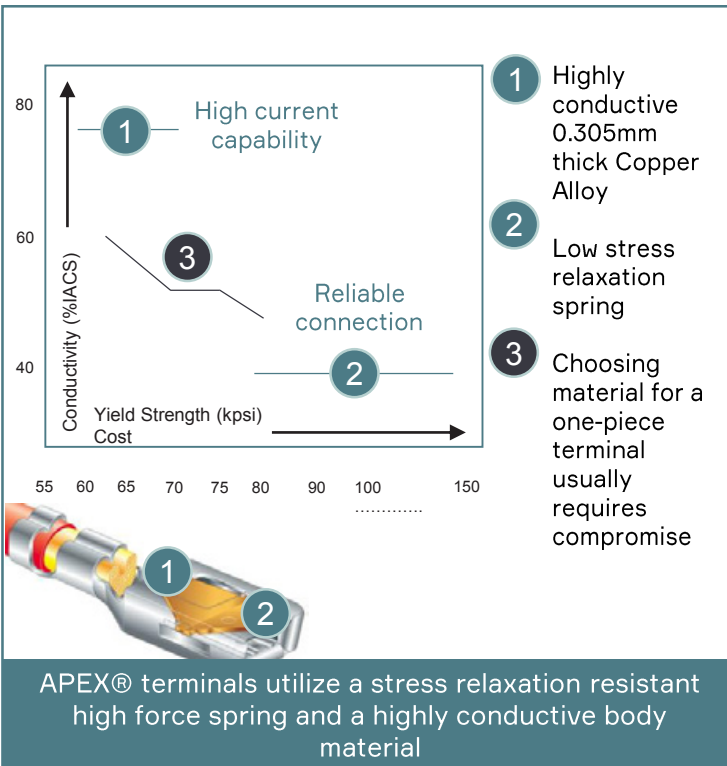
- 1 Optimized contact function with:
  - Two stable contact lines
  - One contact point with the spring
- 2 Fully protected front entry with rounded corners in the four directions:
  - Resistant to probe damage
  - Guides mating blade
- 3 Protected contact area with a closed box
- 4 Dimples provide overstress protection of the spring
- 5 Two symmetrical locking areas:
  - Positive retention achieved in the housing with a vulnerable locking lance
  - Reversibility at 180°
- 6 Box material is a highly conductive copper alloy for exceptional current rating
- 7 Coined edges eliminate the potential to tear the rear mat seal
- 8 Spring protection
- 9 Raised dual rib contact surface



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# APEX® terminal technology

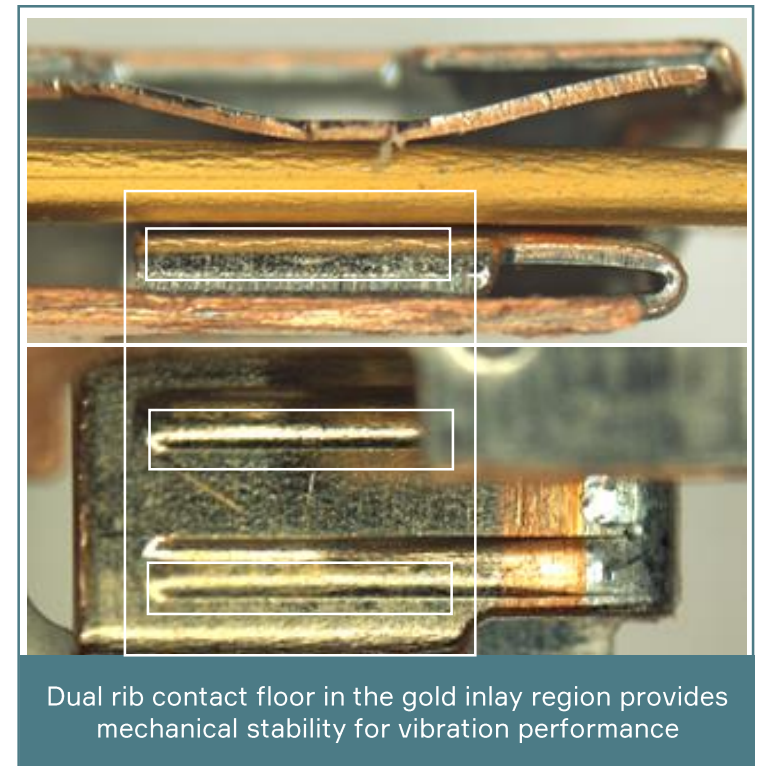
## Two-piece material design



## Plating applications

	Tin	Tin-Silver	Silver	Gold
	+125°C	+150°C	+150°C	+150°C
	-40°C	-40°C	-40°C	-40°C
	Most body & low on-engine vibration	Most body & low on-engine vibration	Severe on-engine vibration	Severe on-engine vibration

## 2.8 Gold inlay contact surface



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# Content

## Why APEX?

Market environment  
and value proposition

## Portfolio Overview

Portfolio scope


## Technical Overview

Design features

## Part Numbers

# Housings sample part numbers


APEX® 1.2 SensoMate™

APEX® 1.2 SensoMate™	Cavity Count	Blade Size (mm)	Gender	Index	Part Number	Other Available Indexes
	2	1.2	F	A (w/o CPA)	13806231	B, C
	3	1.2	F	A (w/o CPA)	13578335	B, C, D
	4	1.2	F	A (w/o CPA)	13820427	B

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# Housings sample part numbers

APEX® 2.8 SensoMate™


APEX® 2.8 SensoMate™	Cavity Count	Blade Size (mm)	Gender	Index	Part Number	Other Available Indexes
	2	2.8	F	A	13821046	B
	3	2.8	F	A	13791661	B
	4	2.8	F	A	33513154	

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# Housings sample part numbers

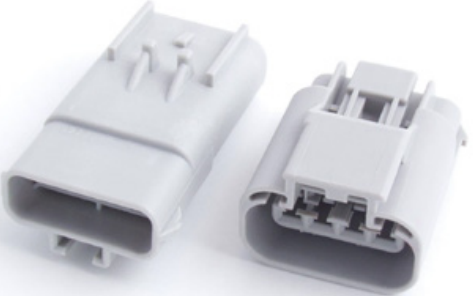
## APEX<sup>®</sup> 150 Sealed Series

APEX <sup>®</sup> 150 Sealed Series	Cavity Count	Blade Size (mm)	Gender	Index	Part Number	Other Available Indexes
	10	1.5	F	A	13737245	B
	10	1.5	M	A	13763996	B, D
	16	1.5	F	A	13625159	B, C, D
	16	1.5	M	A	13625160	B, C

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# Housings sample part numbers


## APEX<sup>®</sup> 2.8 Unsealed Series

APEX <sup>®</sup> 2.8 Unsealed Series	Cavity Count	Blade Size (mm)	Gender	Index	Part Number	Other Available Indexes
	2	2.8	F	A	13869306	B, C, D
	2	2.8	M	A	33500082	B, C, D
	3	2.8	F	A	13576040	B
	3	2.8	M	A	33500093	B
	4	2.8	F	A	33517234	B
	4	2.8	M	A	33500099	B
	5	2.8	F	A	33513166	B
	6	2.8	F	A	15441804	B
	6	2.8	M	A	33500104	B
	10	2.8	F	A	15492288	B
	10	2.8	M	A	33500112	B, C
	14	2.8	F	A	13582973	B, D
	14	2.8	M	A	13581869	B

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# Housings sample part numbers


## APEX® 2.8 Sealed Series

APEX® 2.8 Sealed Series	Cavity Count	Blade Size (mm)	Gender	Index	Part Number	Other Available Indexes
	2	2.8	F	A	10757672	B, C, D
	2	2.8	M	A	15488574	B, C, D
	3	2.8	F	A	10757671	B, C, D
	3	2.8	M	A	15394689	B, C, D
	4	2.8	F	A	15425692	B, C, D
	4	2.8	M	A	15489820	B, C, D
	5	2.8	F	A	33513170	B, C, D
	6	2.8	F	A	15419838	B, C, D
	6	2.8	M	A	15430633	B, C, D
	10	2.8	F	A	15316895	B, C, D
	10	2.8	M	A	15425612	B, C, D
	14	2.8	F	A	10763414	B, C, D
	14	2.8	M	A	10757674	B, C, D

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# Housings sample part numbers


## APEX® ErgoMate™ Series

APEX® ErgoMate™ Series	Cavity Count	Blade Size (mm)	Gender	Index	Part Number	Other Available Indexes
	24	1.5	F	A	13795018	B, D, E
	24	1.5	M	A	13672210	B, D, E

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# Housings sample part numbers


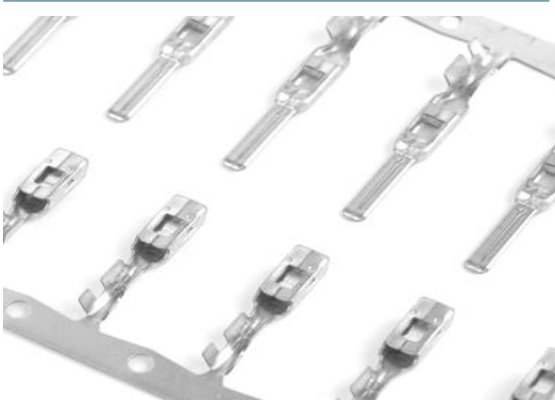
APEX® Mixed Series

APEX® Mixed Series	Cavity Count	Blade Size (mm)	Gender	Index	Part Number	Other Available Indexes
	14	1.5	F	A	13878050	B, C, D, E, F
	14	1.5	M	A	13694022	B, C, D, E, F

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# Terminal sample part numbers


APEX® 1.2, 150, 2.8, 9.5

	Blade Size (mm)	Gender	Plating	Wire Size Range	Part Number	Other Available Platings	
	1.2	F	Tin	AWG 18-20 (0.8 mm <sup>2</sup> )	13576990	Silver, Gold	
	1.5	F	Tin	AWG 16-18 (1.5 mm <sup>2</sup> )	13613157	Gold	
	1.5	F	Tin	AWG 20-22 (0.5 mm <sup>2</sup> )	13624983	Gold	
	1.5	M	Tin	AWG 16-18 (1.5 mm <sup>2</sup> )	13630404	Gold	
	1.5	M	Tin	AWG 20-22 (0.5 mm <sup>2</sup> )	13624759	Gold	
		2.8	F	Tin	AWG 10-12 (4-3 mm <sup>2</sup> )	10762802	Gold
		2.8	F	Tin	AWG 12 (3 mm <sup>2</sup> )	15422738	Gold
		2.8	F	Tin	AWG 14-16 (2 mm <sup>2</sup> )	10762803	Gold
		2.8	F	Tin	AWG 18-20 (0.8 mm <sup>2</sup> )	10757690	Gold
		2.8	F	Tin	AWG 22 (0.35 mm <sup>2</sup> )	10757691	Gold
2.8		F	SWS, Tin	AWG 12 (3 mm <sup>2</sup> )	10810733	Gold	
2.8		F	SWS, Tin	AWG 16 (2 mm <sup>2</sup> )	13627267	Gold	
2.8		F	SWS, Tin	AWG 18-20 (0.8 mm <sup>2</sup> )	10810375	Gold	

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# Terminal sample part numbers

APEX<sup>®</sup> 1.2, 150, 2.8, 9.5

	Blade Size (mm)	Gender	Plating	Wire Size Range	Part Number	Other Available Platings
	2.8	M	Tin	AWG 10-12 (4-3 mm <sup>2</sup> )	10762774	
	2.8	M	Tin	AWG 14-16 (2 mm <sup>2</sup> )	10757692	Gold
	2.8	M	Tin	AWG 18-20 (0.8 mm <sup>2</sup> )	10762775	Gold
	2.8	M	Tin	AWG 22 (0.35 mm <sup>2</sup> )	10762776	Gold
	9.5	F	Tin	16-25 mm <sup>2</sup>	13862251	

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# Why APEX?

AVNET<sup>®</sup> ABACUS

**Heavy-duty  
performance**



**High current  
capacity**



**Ergonomic  
design**



Our highest current capacity high performance solution with user-friendly ergonomic design

• APTIV •



# Thank you.