

• A P T I V •

CTCS CONNECTION SYSTEM FAMILY CATALOGUE

Commercial vehicle and heavy duty portfolio

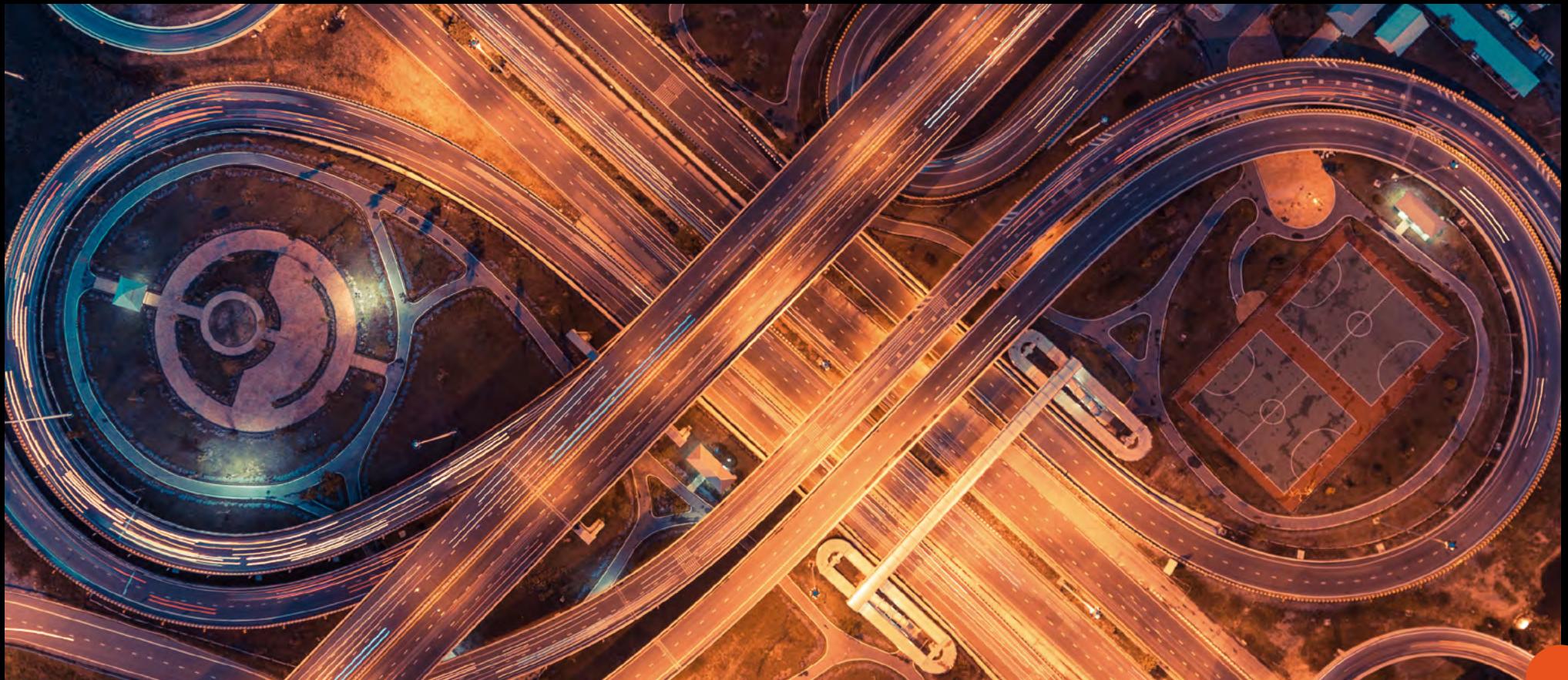


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At Aptiv, we are born to move

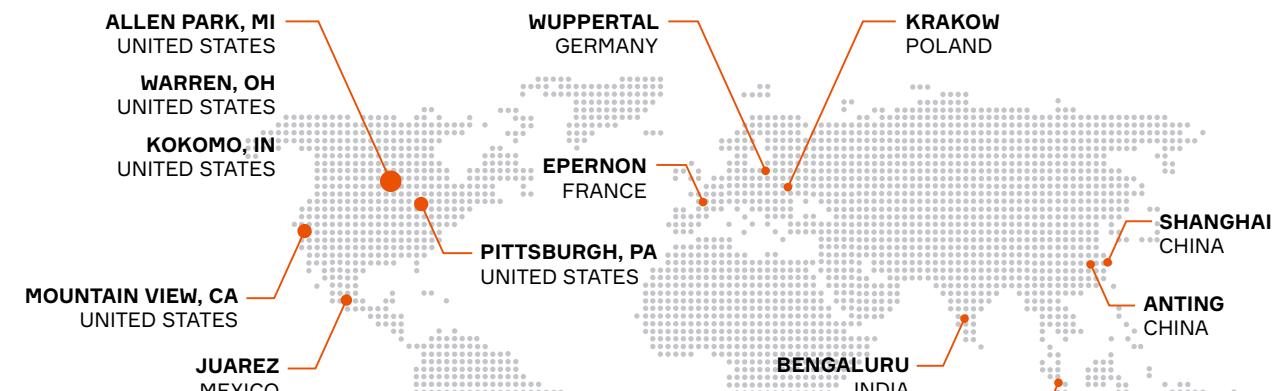
Aptiv is a **global technology company** that develops safer, greener and more connected solutions enabling the future of mobility.

Headquartered in Dublin, Aptiv has approximately 150,000 employees and operates 14 technical centers, as well as manufacturing sites and customer support centers in 45 countries.

VISIT **APТИV.COM**



Major Design Centers Worldwide





The world of transportation

Aptiv has been a trusted automotive supplier for decades, introducing practical innovations in the areas of safety, efficiency, and connectivity. The transportation market has been advancing in these areas and Aptiv can offer product solutions designed for the tougher operational and environmental requirements.

Commercial and recreation vehicles are often exposed to higher levels of environmental forces, including vibration, dust, water, debris, and temperature. To protect the integrity of the electrical system, high performance connection systems are required.

To deliver superior performance, a number of complex factors in the electrical system must be addressed in the component design, including sealing, locking features, and materials.

A new generation of transportation fleets

As fleets and owner operators are looking to increase profitability and decrease negative footprint on the environment, vehicle manufacturers are considering alternative powertrains to meet new demands of their customers.



Alternative powertrain solutions now include more sophisticated ICE (Internal Combustion Engine), hybrid, battery electric, CNG (Compressed Natural Gas), and fuel cell technologies. And the infrastructure development is keeping up with the pace of vehicle technology advancements. The trend for a greener future is now becoming a reality across the world

through truck, bus, and construction/agriculture fleet operations. And it has a potential to positively impact thousands of people through decreased pollution and improved air quality.

These alternative powertrains, however, increase the complexity of the electrical architecture, requiring

higher reliability. The transportation market also has more stringent performance requirements as vehicles are exposed to higher operational temperature and extreme environmental forces. These two factors drive the demand for more robust connection systems designed specifically with the market's unique conditions in mind

A connection system designed for the future

The CTCS connector and CTS terminal families have been designed to meet the demanding requirements of commercial and heavy duty applications, specifically to address new emission regulations and enable the generation of environmentally-friendly vehicles.

The CTCS (Compact Transportation Connection System) family offers an integrated system solution to a wide variety of vehicle interconnections, ranging from unsealed cab to sealed on-engine applications, to options with flame-retardant material, to performance-boosting accessories. It was designed to meet or exceed a range of industry and customer validation standards and deliver improved performance over the competition.

This heavy duty connection system provides superior resistance against vibration and environmental forces, protecting the integrity of the electrical system from high operating temperatures, debris, and water. CTCS serves as a reliable backbone to all vehicle electronics, including powertrain, safety, entertainment, and telematics.



Robust features, meaningful benefits



Versatility of application

- **A complete portfolio** of connectors, accessories, terminals, and seals
- **Terminal flexibility:** interchangeable with other industry terminals
- **Mounting flexibility:** Panel (for pass through and bulkhead), Strap/Clip (for wire tie or clip), and Bracket (for bulkhead)
- **Application flexibility:** perfect for cab, chassis, engine compartment, and on-engine applications
- **Offered** in both HB flammability and V0 materials



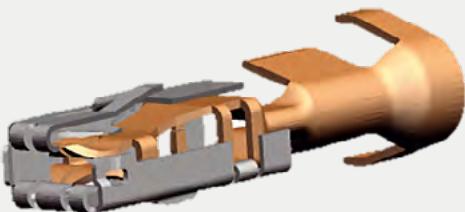
Unparalleled reliability and performance

- **Improved vibration resistance**
 - Sine vibration up to 30.6 G; random vibration up to 18 Grms, 330 hrs/axis
 - Robust back shells further improve strain relief performance
- **High temperature rating**
 - Up to -40 °C to +140 °C
 - Superior terminal design, with high pre-load stainless steel spring, reduces relaxation of terminal base body
- **Superior environmental protection**
 - Additional connector features for protection against debris ingress
 - IP67, IP69 (IEC) and IP6K7, IP6K9K (ISO) sealing rating for highest protection against water intrusion



Designed for the transportation market

- **Robust solution** from an electrical component expert with over 100 years of experience designing and implementing superior solutions for the industry
- **Meeting or exceeding** a wide range of commercial vehicle validation standards



High pre-load stainless steel spring

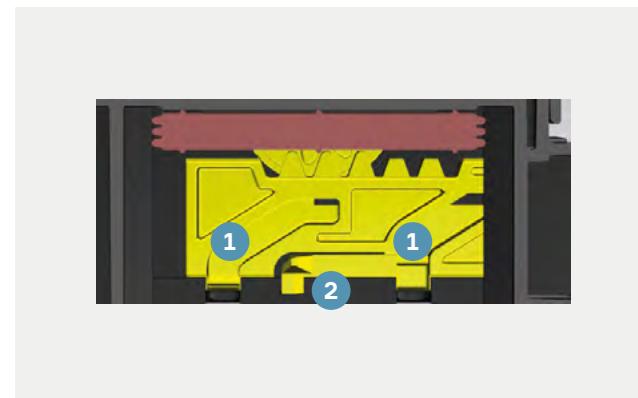
Superior vibration and relaxation resistance



Additional structure on back shells

Designed for maximum mechanical robustness and mud and dust protection

- ① Heavy ribbing
- ② Strapping points fully integrated with cover for maximum retention of harness
- ③ Four shrouded locks



Pre-staged locking mechanism (SP and XP Series)

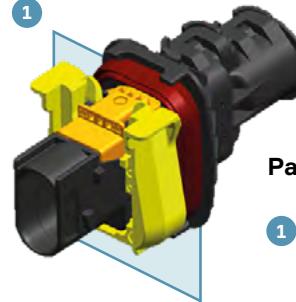
- ① Pre-staging features in slider to aid in proper mating
- ② Slider lock is firmly retained and only released upon installation onto mating connector

Mounting flexibility

Aptiv provides a range of mounting options for maximum application flexibility.



Strap/Clip Mount
① Tie strap area
② Clip slot

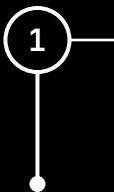


Panel Mount
① 1.0 - 3.5 mm
wall thickness
capability



**Pass-through
Bracket Mount**

A wide family range



Connectors

CTCS connectors offer wide application versatility and a perfect match for your design needs.

CTCS connector range covers:

- Inline and device applications
- 2 through 62 way configurations
- 1.5, 2.8, 6.3 mm blade sizes, and mixed cavity configurations
- Sealed and unsealed applications
- Flame-retardant material option (V0)
- Panel, strap/clip, and bracket male mounting options
- Two different lock assist mechanisms for sealed connectors:
Slider lock and Lever lock



Terminals

CTCS connectors are compatible with both Aptiv and other industry terminals. Aptiv's CTS tanged terminals offer premium vibration, temperature, and sealing performance.

Terminal range covers:

- 1.5, 2.8, and 6.3 mm blade sizes
- 0.08-6.0 mm² / 28-10 awg cable sizes
- Tin, silver, and gold plating options





Seals

Both cable seal and cavity plug options are available, covering a wide range of cable gages and all CTCS cavity sizes.



Accessories

CTCS housings can be supplemented with optional accessories, which can further improve vibration performance and harness interconnection integrity. The following accessories, produced by an Aptiv brand HellermannTyton, are available:

- 180° or 90° back shells
- 1.0-3.5 mm² fixing slides
- Caps
- Clips and wire ties

For more information visit www.hellermanntyton.com



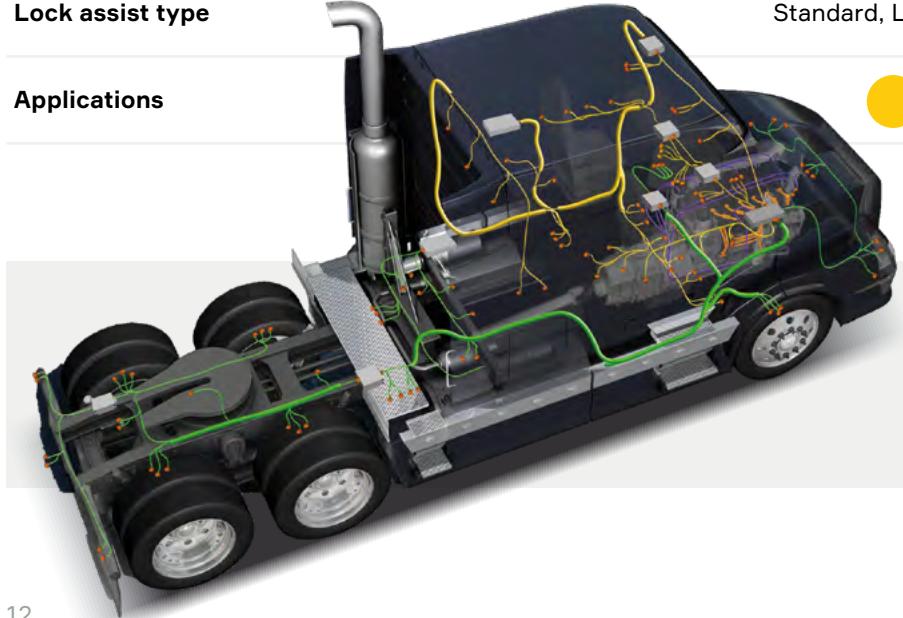
Hand crimp tools

Hand crimp tools are available for CTS female and male terminals. No solder required.



The right connection for the right job

| PERFORMANCE | 1. CTCS UNSEALED | 2. CTCS SP | 3. CTCS XP |
|--|---|--|--|
| Max vibration Sine (G) / Random (Grms) | n/a / 2.17 | 23.9 / 12.4 | 30.6 / 18 |
| Max temperature (°C) | -40 to +85 | -40 to +120 | -40 to +140 |
| Sealing IP (IEC / ISO) | 5 / 5K | 67, 69 / 6K7, 6K9K | 67, 69 / 6K7, 6K9K |
| Flame resistance | HB flammability | HB flammability, V0 | HB flammability, V0 |
| Available cavity configurations | 4, 18, 25, 36 | 15, 21, 26, 39, 62 | 2, 3, 4, 6, 7, 8, 10, 12, 15, 16, 18 |
| Mounting options | None | Panel, Bracket | Panel, Strap/Clip |
| Lock assist type | Standard, Lever lock | Lever lock | Slider lock |
| Applications |  |    |    |



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Exploded view

- 1** Connector housing
- 2** Secondary lock
- 3** Lever lock
- 4** Seal
- 5** Fixing slide
- 6** Slide
- 7** Panel
- 8** Back shell
- 9** Cavity module
- 10** Male inner connector

1



CTCS UNSEALED

2

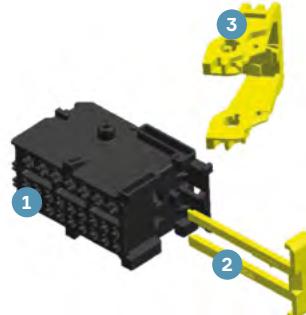


CTCS SP

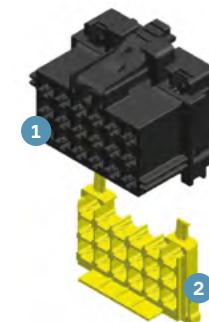
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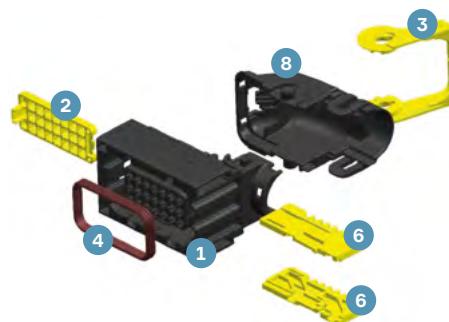
CTCS XP



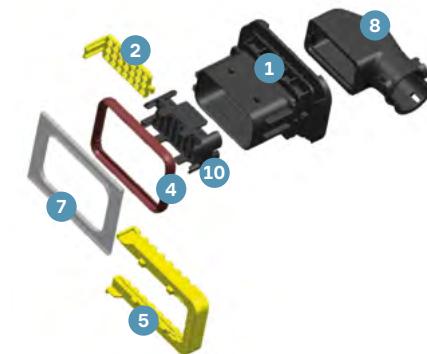
1.5/2.8 25W Female



2.8 18W Female



1.5/2.8 21W Female (HB*)



2.8 21W Male (HB*)



1.5/2.8 16W Female (V0)**



1.5/2.8 16W Male (V0)**

* HB option comes with yellow-coded locks and slides

** V0 option comes with orange-coded locks and slides

Available configurations

| TERMINALS | | | | | | |
|---------------------|--------------------|-------------------|---------------|--------------------|-----------------------------------|-----------------|
| Blade size (mm) | Gender | Sealing | Base material | Plating options | Cable range (mm ²) | SAE gage (AWG) |
| 1.5 | F | Sealed & Unsealed | CuFe, CuNiSi | Sn, Ag, Au | 0.08 - 1.5 | 28 - 16 |
| 1.5 | M | Sealed & Unsealed | CuFe | Sn, Ag, Au | 0.08 - 1.5 | 28 - 16 |
| 2.8 | F | Sealed & Unsealed | CuNiSi | Sn, Ag | 0.08 - 5.0 | 28 - 10 |
| 2.8 | M | Sealed & Unsealed | CuFe | Sn, Ag | 0.22 - 2.5 | 24 - 14 |
| 6.3 | F | Sealed & Unsealed | CuFe | Sn, Ag | 0.35 - 6.0 | 22 - 10 |
| CONNECTORS | | | | | | |
| # of ways | Performance series | Lock assist type | Gender | Male mounting type | Available terminal configurations | Applications |
| SEALED CONNECTORS | | | | | | |
| 2 | XP | Slider lock | Female, Male | Panel & Strap/Clip | 1.5, 2.8, 6.3 | Inline & Device |
| 3 | XP | Slider lock | Female, Male | Panel & Strap/Clip | 1.5 | Inline & Device |
| 4 | XP | Slider lock | Female, Male | Panel & Strap/Clip | 2.8 | Inline & Device |
| 6 | XP | Slider lock | Female, Male | Panel & Strap/Clip | 1.5 | Inline & Device |
| 7 | XP | Slider lock | Female, Male | Panel & Strap/Clip | 1.5/2.8 | Inline & Device |
| 8 | XP | Slider lock | Female, Male | Panel & Strap/Clip | 1.5, 2.8 | Inline & Device |
| 10 | XP | Slider lock | Female, Male | Panel | 1.5/2.8 | Inline & Device |
| 12 | XP | Slider lock | Female, Male | Panel | 1.5 | Inline & Device |
| 15 | XP | Slider lock | Female, Male | Panel & Strap/Clip | 1.5/2.8 | Device |
| 16 | XP | Slider lock | Female, Male | Panel & Strap/Clip | 1.5/2.8 | Inline & Device |
| 18 | XP | Slider lock | Female, Male | Panel & Strap/Clip | 1.5 | Inline & Device |
| 15 | SP | Lever lock | Female | - | 2.8 | Inline & Device |
| 21 | SP | Lever lock | Female, Male | Panel | 2.8 | Inline & Device |
| 26 | SP | Lever lock | Female, Male | Panel | 1.5/2.8/6.3 | Inline & Device |
| 39 | SP | Lever lock | Female, Male | Panel & Bracket | 2.8 | Inline & Device |
| 62 | SP | Lever lock | Female, Male | Panel & Bracket | 1.5/2.8 | Inline & Device |
| UNSEALED CONNECTORS | | | | | | |
| 4 | Unsealed | Standard | Female | - | 6.3 | Device |
| 18 | Unsealed | Standard | Female | - | 2.8 | Device |
| 25 | Unsealed | Lever lock | Female | - | 1.5/2.8 | Device |
| 36 | Unsealed | Lever lock | Female | - | 1.5 | Device |

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TERMINALS & SEALS

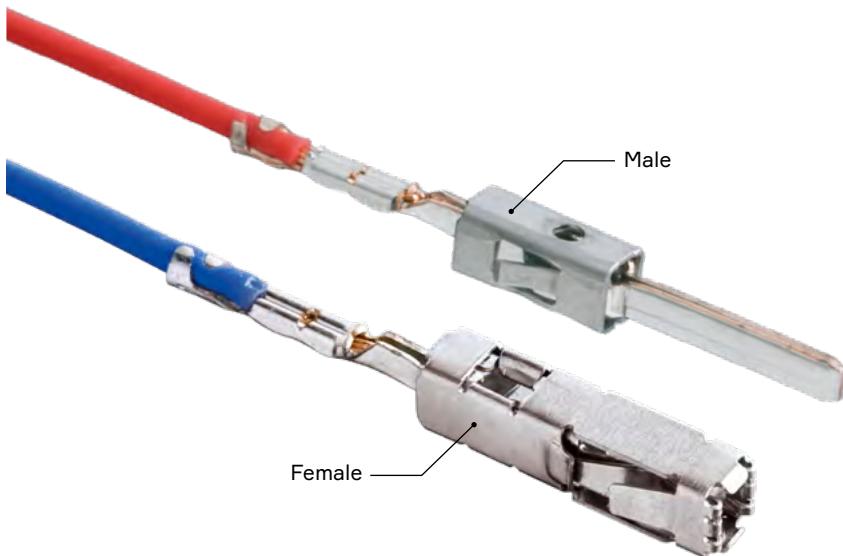


TERMINALS

SEALS

CTS 1.5 UNSEALED

TERMINALS



DESCRIPTION

| | |
|----------------------------|--------------------------------|
| Terminal system: | Tanged |
| Cable range: | 0.08 - 1.5 mm ² |
| Material: | CuFe |
| Available plating: | Sn, Au |
| Current carrying capacity: | 24A/Sn/20°C/1.5mm ² |

PERFORMANCE

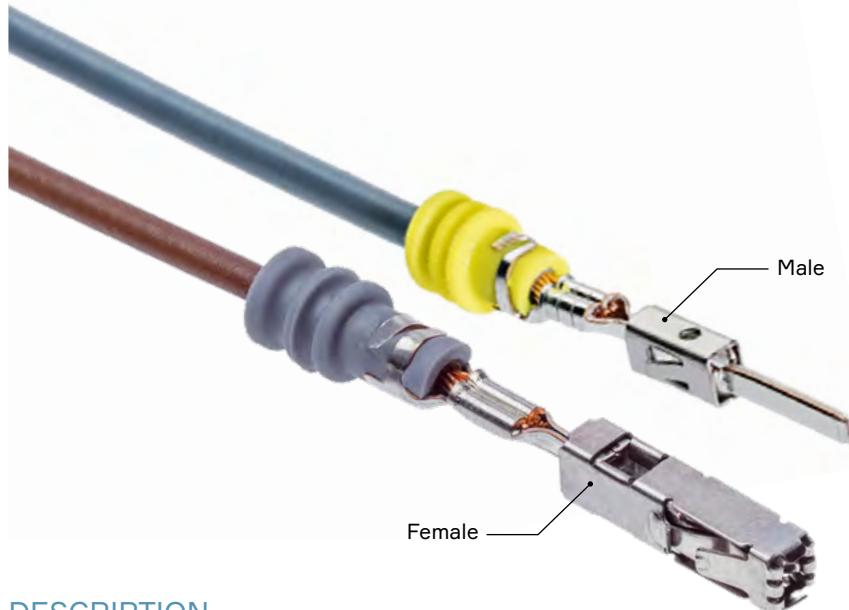
| Category | Sn | Au |
|------------------------|----------|----------|
| Operating temperature: | 135° | 150° |
| Through resistance: | ≤ 2 mΩ | ≤ 2 mΩ |
| Crimp resistance: | ≤ 1 mΩ | ≤ 1 mΩ |
| Mating force: | max. 8 N | max. 6 N |
| Unmating force: | max. 8 N | max. 6 N |
| Mating cycles: | 20 | 50 |

TERMINAL PART NUMBERS

| Description | Part number | ISO Cable range [mm ²] | SAE gage [awg] | Material | Plating |
|-------------|-------------|------------------------------------|-----------------|----------|---------|
| CTS 1.5 F | 13819159 | 0.08 - 0.18 | 28 - 26 | CuFe | Sn |
| CTS 1.5 F | 15432237 | 0.22 - 0.35 | 24 - 22 | CuFe | Sn |
| CTS 1.5 F | 15432235 | 0.5 - 1 | 20 - 16 | CuFe | Sn |
| CTS 1.5 F | 15432233 | 1 - 1.5 | 16 | CuFe | Sn |
| CTS 1.5 F | 15493005 | 0.22 - 0.35 | 24 - 22 | CuFe | Au |
| CTS 1.5 F | 15493007 | 0.5 - 1 | 20 - 16 | CuFe | Au |
| CTS 1.5 F | 15493009 | 1 - 1.5 | 16 | CuFe | Au |
| CTS 1.5 M | 13733481 | 0.08 - 0.18 | 28 - 26 | CuFe | Sn |
| CTS 1.5 M | 15396711 | 0.22 - 0.35 | 24 - 22 | CuFe | Sn |
| CTS 1.5 M | 15396712 | 0.5 - 0.75 | 20 - 18 | CuFe | Sn |
| CTS 1.5 M | 15482337 | 1 - 1.5 | 16 | CuFe | Sn |
| CTS 1.5 M | 15396713 | (2) 0.35 - (2) 0.50 | (2) 22 - (2) 20 | CuFe | Sn |
| CTS 1.5 M | 13988133 | 0.08 - 0.18 | 28 - 26 | CuFe | Au |
| CTS 1.5 M | 15482338 | 0.22 - 0.35 | 24 - 22 | CuFe | Au |
| CTS 1.5 M | 13596791 | 0.22 - 0.35 | 24 - 22 | CuFe | Au |
| CTS 1.5 M | 15482339 | 0.5 - 0.75 | 20 - 18 | CuFe | Au |
| CTS 1.5 M | 13596792 | 0.5 - 0.75 | 20 - 18 | CuFe | Au |
| CTS 1.5 M | 15482340 | 1 - 1.5 | 16 | CuFe | Au |

Part numbers, specifications, dimensions and performance data in this document are for general references only and are subject to change without notice. To verify product information, please contact an Aptiv representative.

CTS 1.5 SEALED



DESCRIPTION

| | |
|----------------------------|--------------------------------|
| Terminal system: | Tanged |
| Cable range: | 0.22 - 1.5 mm ² |
| Material: | CuFe, CuNiSi |
| Available plating: | Sn, Ag, Au |
| Current carrying capacity: | 24A/Sn/20°C/1.5mm ² |

PERFORMANCE

| Category | Sn | Ag | Au |
|------------------------|----------|----------|----------|
| Operating temperature: | 135° | 150° | 150° |
| Through resistance: | ≤ 2 mΩ | ≤ 2 mΩ | ≤ 2 mΩ |
| Crimp resistance: | ≤ 1 mΩ | ≤ 1 mΩ | ≤ 1 mΩ |
| Mating force: | max. 8 N | max. 7 N | max. 6 N |
| Unmating force: | max. 8 N | max. 7 N | max. 6 N |
| Mating cycles: | 20 | 50 | 50 |

TERMINAL PART NUMBERS

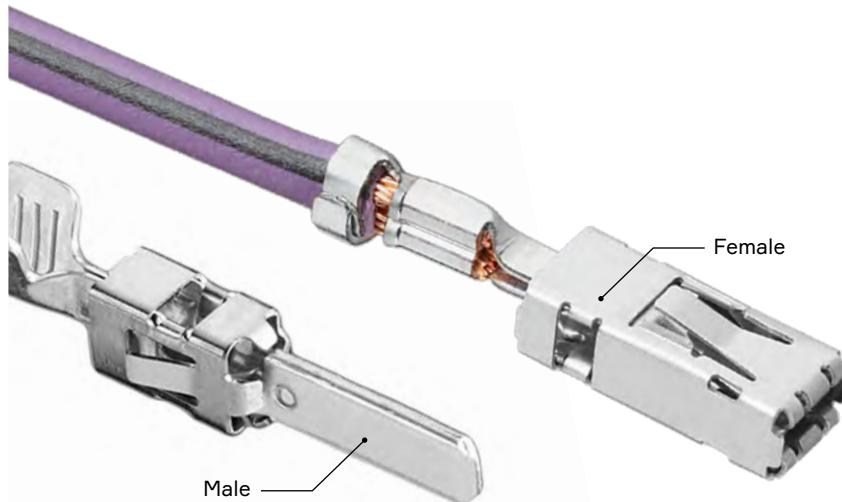
| Description | Part number | ISO Cable range [mm ²] | SAE gage [awg] | Material | Plating |
|-------------|-------------|------------------------------------|----------------|----------|---------|
| CTS 1.5 F | 15432208 | 0.22 - 0.35 | 24 - 22 | CuFe | Sn |
| CTS 1.5 F | 15432210 | 0.5 - 1 | 20 - 16 | CuFe | Sn |
| CTS 1.5 F | 15432212 | 1 - 1.5 | 16 | CuFe | Sn |
| CTS 1.5 F | 15492999 | 0.22 - 0.35 | 24 - 22 | CuFe | Au |
| CTS 1.5 F | 15493001 | 0.5 - 1 | 20 - 16 | CuFe | Au |
| CTS 1.5 F | 15493003 | 1 - 1.5 | 16 | CuFe | Au |
| CTS 1.5 F | 13626010 | 0.22 - 0.35 | 24 - 22 | CuNiSi | Ag |
| CTS 1.5 F | 13611693 | 0.5 - 1 | 20 - 16 | CuNiSi | Ag |
| CTS 1.5 F | 13626012 | 1 - 1.5 | 16 | CuNiSi | Ag |
| CTS 1.5 M | 33118031 | 0.22 - 0.35 | 24 - 22 | CuFe | Sn |
| CTS 1.5 M | 33118034 | 0.5 - 0.75 | 20 - 18 | CuFe | Sn |
| CTS 1.5 M | 15482325 | 1 - 1.5 | 16 | CuFe | Sn |
| CTS 1.5 M | 15482326 | 0.22 - 0.35 | | CuFe | Au |
| CTS 1.5 M | 15482327 | 0.5 - 1 | 20 - 16 | CuFe | Au |
| CTS 1.5 M | 15482328 | 1 - 1.5 | 16 | CuFe | Au |
| CTS 1.5 M | 33118033 | 0.22 - 0.35 | 24 - 22 | CuFe | Ag |
| CTS 1.5 M | 33120088 | 0.5 - 0.75 | 20 - 18 | CuFe | Ag |
| CTS 1.5 M | 13894097 | 1 - 1.5 | 16 | CuFe | Ag |

COMPATIBLE SEAL PART NUMBERS

| Type | Part number | Outside wire diameter [mm] | Material | Color | % Oil |
|-------|-------------|----------------------------|----------|--------|-------|
| Cable | 15327913 | 1.2 - 1.6 | LSR | Red | 2 |
| Cable | 15327918 | 1.2 - 2.0 | LSR | Grey | 2 |
| Cable | 15339412 | 1.9 - 2.1 | LSR | Yellow | 2 |
| Plug | 12198198 | - | LSR | White | 2 |

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CTS 2.8 UNSEALED



DESCRIPTION

| | |
|----------------------------|--------------------------------|
| Terminal system: | Tanged |
| Cable range: | 0.08 - 5.0 mm ² |
| Material: | CuFe, CuNiSi |
| Available plating: | Sn, Ag |
| Current carrying capacity: | 38A/Sn/20°C/2.5mm ² |

PERFORMANCE

| Category | Sn | Ag |
|------------------------|-----------|----------|
| Operating temperature: | 135°C | 170°C |
| Through resistance: | ≤ 2 mΩ | ≤ 2 mΩ |
| Crimp resistance: | ≤ 1 mΩ | ≤ 1 mΩ |
| Mating force: | max. 12 N | max. 9 N |
| Unmating force: | max. 10 N | max. 8 N |
| Mating cycles: | 20 | 50 |

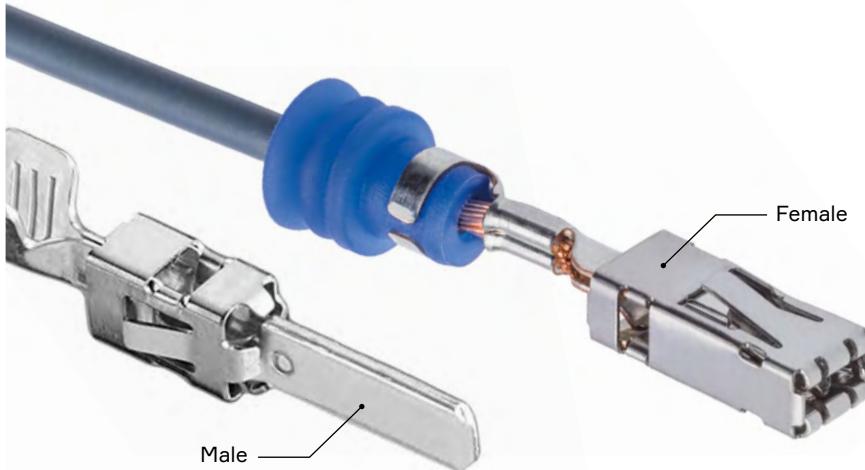
TERMINAL PART NUMBERS

| Description | Part number | ISO Cable range [mm ²] | SAE gage [awg] | Material | Plating |
|------------------------|-------------|------------------------------------|----------------|----------|---------|
| CTS 2.8 F | 13943809 | 0.08 - 0.18 | 28 - 26 | CuNiSi | Sn |
| CTS 2.8 F | 15457847 | 0.22 - 0.35 | 24 - 22 | CuNiSi | Sn |
| CTS 2.8 F | 15457848 | 0.5 - 1 | 20 - 16 | CuNiSi | Sn |
| CTS 2.8 F | 15457849 | 1.5 - 2.5 | 14 | CuNiSi | Sn |
| CTS 2.8 F | 13943933 | 4 - 5 | 10 | CuNiSi | Sn |
| CTS 2.8 F | 13799599 | 0.22 - 0.35 | 24 - 22 | CuNiSi | Ag |
| CTS 2.8 F | 13799601 | 0.5 - 1 | 20 - 16 | CuNiSi | Ag |
| CTS 2.8 F | 13799603 | 1.5 - 2.5 | 14 | CuNiSi | Ag |
| CTS 2.8 F | 13882331 | 4 - 5 | 10 | CuNiSi | Ag |
| CTS 2.8 M / DCS-2 2.8M | 10774271 | >0.20 - 0.35 | 24 - 22 | CuFe | Sn |
| CTS 2.8 M / DCS-2 2.8M | 10774272 | 0.5 - 1 | 20 - 16 | CuFe | Sn |
| CTS 2.8 M / DCS-2 2.8M | 10756896 | >1.0 - 2.5 | 14 | CuFe | Sn |

Aluminum wire capable terminal parts numbers are also available.

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CTS 2.8 SEALED



DESCRIPTION

| | |
|----------------------------|--------------------------------|
| Terminal system: | Tanged |
| Cable range: | 0.2 - 2.5 mm ² |
| Material: | CuFe, CuNiSi |
| Available plating: | Sn, Ag |
| Current carrying capacity: | 38A/Sn/20°C/2.5mm ² |

PERFORMANCE

| Category | Sn | Ag |
|------------------------|-----------|----------|
| Operating temperature: | 135°C | 170°C |
| Through resistance: | ≤ 2 mΩ | ≤ 2 mΩ |
| Crimp resistance: | ≤ 1 mΩ | ≤ 1 mΩ |
| Mating force: | max. 12 N | max. 9 N |
| Unmating force: | max. 10 N | max. 8 N |
| Mating cycles: | 20 | 50 |

TERMINAL PART NUMBERS

| Description | Part number | ISO Cable range [mm ²] | SAE gage [awg] | Material | Plating |
|------------------------|-------------|------------------------------------|----------------|----------|---------|
| CTS 2.8 F | 15446673 | 0.22 - 0.35 | 24 - 22 | CuNiSi | Sn |
| CTS 2.8 F | 15446674 | 0.5 - 1 | 20 - 16 | CuNiSi | Sn |
| CTS 2.8 F | 15446675 | 1.5 - 2.5 | 14 | CuNiSi | Sn |
| CTS 2.8 F | 13799598 | 0.22 - 0.35 | 24 - 22 | CuNiSi | Ag |
| CTS 2.8 F | 13799600 | 0.5 - 1 | 20 - 16 | CuNiSi | Ag |
| CTS 2.8 F | 13799602 | 1.5 - 2.5 | 14 | CuNiSi | Ag |
| CTS 2.8 M / DCS-2 2.8M | 10756351 | >0.22 - 0.35 | 24 - 22 | CuFe | Sn |
| CTS 2.8 M / DCS-2 2.8M | 10756352 | 0.5 - 1 | 20 - 16 | CuFe | Sn |
| CTS 2.8 M / DCS-2 2.8M | 10756353 | >1.00 - 2.50 | 14 | CuFe | Sn |
| CTS 2.8 M / DCS-2 2.8M | 33500680 | >0.22 - 0.35 | 24 - 22 | CuFe | Ag |
| CTS 2.8 M / DCS-2 2.8M | 33505427 | 0.5 - 1 | 20-16 | CuFe | Ag |
| CTS 2.8 M / DCS-2 2.8M | 33500683 | >1.00 - 2.50 | 14 | CuFe | Ag |

Aluminum wire capable terminal parts numbers are also available.

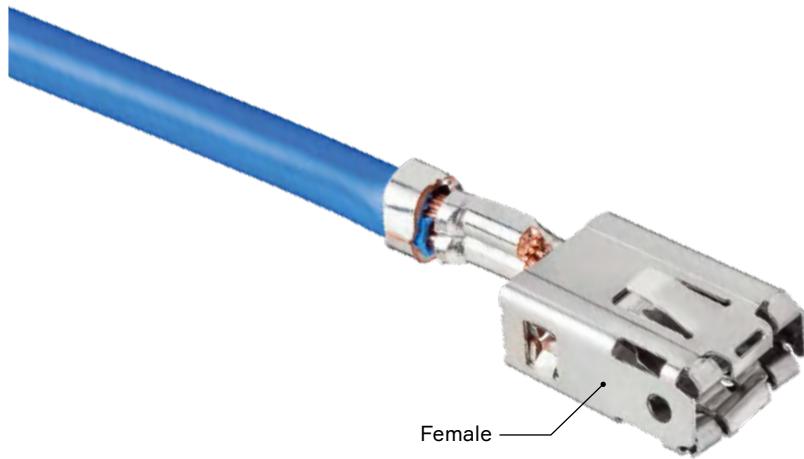
COMPATIBLE SEAL PART NUMBERS

| Type | Part number | Outside wire diameter [mm] | Material | Color | % Oil |
|-------|-------------|----------------------------|----------|-----------|-------|
| Cable | 15339967 | 1.2 - 2.1 | LSR | Blue | 2 |
| Cable | 15339838 | 2.2 - 3.0 | LSR | White | 2 |
| Plug | 12059168 | - | LSR | Red-brown | - |
| Plug | 15337197 | - | LSR | White | 2 |
| Plug | 10730124 | - | LSR | Green | 2 |

Part numbers, specifications, dimensions and performance data in this document are for general references only and are subject to change without notice. To verify product information, please contact an Aptiv representative.

CTS 6.3 UNSEALED

TERMINALS



TERMINAL PART NUMBERS

| Description | Part number | ISO Cable range [mm ²] | SAE gage [awg] | Material | Plating |
|-------------|-------------|------------------------------------|----------------|----------|---------|
| CTS 6.3 F | 13976098 | 0,35 | 22 | CuFe | Sn |
| CTS 6.3 F | 13976099 | 0.5 - 1 | 20 - 16 | CuFe | Sn |
| CTS 6.3 F | 13976100 | 1.5 - 2.5 | 14 | CuFe | Sn |
| CTS 6.3 F | 13976101 | >2.5 - 4 | 12 | CuFe | Sn |
| CTS 6.3 F | 13976102 | >4.0 - 6 | 10 | CuFe | Sn |
| CTS 6.3 F | 13984278 | 0,35 | 22 | CuFe | Ag |
| CTS 6.3 F | 13984290 | 0.5 - 1 | 20 - 16 | CuFe | Ag |
| CTS 6.3 F | 13984291 | 1.5 - 2.5 | 14 | CuFe | Ag |
| CTS 6.3 F | 13984302 | >2.5 - 4 | 12 | CuFe | Ag |
| CTS 6.3 F | 13984307 | >4.0 - 6 | 10 | CuFe | Ag |

Aluminum wire capable terminal parts numbers are also available.

DESCRIPTION

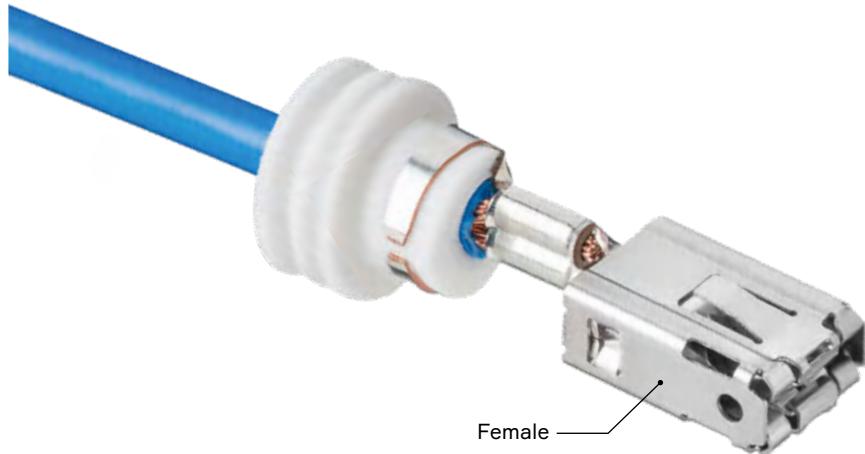
| | |
|----------------------------|------------------------------|
| Terminal system: | Tanged |
| Cable range: | 0.35 - 6.0 mm ² |
| Material: | CuFe |
| Available plating: | Sn, Ag |
| Current carrying capacity: | 52A/Sn/20°C/6mm ² |

PERFORMANCE

| Category | Sn | Ag |
|------------------------|-----------|-----------|
| Operating temperature: | 135°C | 170°C |
| Through resistance: | ≤ 2 mΩ | ≤ 2 mΩ |
| Crimp resistance: | ≤ 1 mΩ | ≤ 1 mΩ |
| Mating force: | max. 20 N | max. 20 N |
| Unmating force: | max. 13 N | max. 13 N |
| Mating cycles: | 20 | 20 |

Part numbers, specifications, dimensions and performance data in this document are for general references only and are subject to change without notice. To verify product information, please contact an Aptiv representative.

CTS 6.3 SEALED



DESCRIPTION

| | |
|----------------------------|------------------------------|
| Terminal system: | Tanged |
| Cable range: | 0.35 - 6.0 mm ² |
| Material: | CuFe |
| Available plating: | Sn, Ag |
| Current carrying capacity: | 52A/Sn/20°C/6mm ² |

PERFORMANCE

| Category | Sn | Ag |
|------------------------|-----------|-----------|
| Operating temperature: | 135°C | 170°C |
| Through resistance: | ≤ 2 mΩ | ≤ 2 mΩ |
| Crimp resistance: | ≤ 1 mΩ | ≤ 1 mΩ |
| Mating force: | max. 20 N | max. 20 N |
| Unmating force: | max. 13 N | max. 13 N |
| Mating cycles: | 20 | 20 |

TERMINAL PART NUMBERS

| Description | Part number | ISO Cable range [mm ²] | SAE gage [awg] | Material | Plating |
|-------------|-------------|------------------------------------|----------------|----------|---------|
| CTS 6.3 F | 13976114 | 0,35 | 22 | CuFe | Sn |
| CTS 6.3 F | 13976115 | 0.5 - 1 | 20 - 16 | CuFe | Sn |
| CTS 6.3 F | 13976116 | 1.5 - 2.5 | 14 | CuFe | Sn |
| CTS 6.3 F | 13976117 | >2.5 - 4 | 12 | CuFe | Sn |
| CTS 6.3 F | 13976118 | >4.0 - 6 | 10 | CuFe | Sn |
| CTS 6.3 F | 13984320 | 0,35 | 22 | CuFe | Ag |
| CTS 6.3 F | 13984321 | 0.5 - 1 | 20 - 16 | CuFe | Ag |
| CTS 6.3 F | 13984322 | 1.5 - 2.5 | 14 | CuFe | Ag |
| CTS 6.3 F | 13984323 | >2.5 - 4 | 12 | CuFe | Ag |
| CTS 6.3 F | 13984326 | >4.0 - 6 | 10 | CuFe | Ag |

Aluminum wire capable terminal parts numbers are also available.

COMPATIBLE SEAL PART NUMBERS

| Type | Part number | Outside wire diameter [mm] | Material | Color | % Oil |
|-------|-------------|----------------------------|----------|-----------|-------|
| Cable | 15363779 | 1.2 - 2.0 | LSR | Yellow | 2 |
| Cable | 15363604 | 2.0 - 2.7 | LSR | White | 2 |
| Cable | 15327864 | 2.8 - 3.8 | LSR | Red-brown | 2 |
| Cable | 15363605 | 4.0 - 4.5 | LSR | Green | 2 |
| Cable | 15344647 | 4.7 - 5.3 | LSR | Gray | 2 |
| Plug | 12066082 | - | LSR | Green | - |

Part numbers, specifications, dimensions and performance data in this document are for general references only and are subject to change without notice. To verify product information, please contact an Aptiv representative.

SEALS

SEALS



DESCRIPTION

| | |
|----------------------|------------------|
| Seal types: | Cable & plug |
| Outside diameter: | 1.2 - 5.3 mm |
| Material: | LSR |
| Compatible cavities: | 3.6, 5.2, 8.5 mm |
| Terminal sizes: | 1.5, 2.8, 6.3 mm |

SEAL PART NUMBERS

| Seal type | Part number | Blade size [mm] | Outside wire diameter [mm] | Material | Color | % Oil |
|-----------|-------------|-----------------|----------------------------|----------|-----------|-------|
| Cable | 15327913 | 1.5 | 1.2 - 1.6 | LSR | Red | 2 |
| Cable | 15327918 | 1.5 | 1.2 - 2.0 | LSR | Gray | 2 |
| Cable | 15339412 | 1.5 | 1.9 - 2.1 | LSR | Yellow | 2 |
| Cable | 35034194 | 2.8 | 1.2 - 1.9 | LSR | Blue | 2 |
| Cable | 35034363 | 2.8 | 1.9 - 2.4 | LSR | Gray | 2 |
| Cable | 35034195 | 2.8 | 2.5 - 3.0 | LSR | Green | 2 |
| Cable | 15363779 | 6.3 | 1.2 - 2.0 | LSR | Yellow | 2 |
| Cable | 15363604 | 6.3 | 2.0 - 2.7 | LSR | White | 2 |
| Cable | 15327864 | 6.3 | 2.8 - 3.8 | LSR | Red-brown | 2 |
| Cable | 15363605 | 6.3 | 4.0 - 4.5 | LSR | Green | 2 |
| Cable | 15344647 | 6.3 | 4.7 - 5.3 | LSR | Gray | 2 |
| Plug | 12198198 | 1.5 | - | LSR | White | 2 |
| Plug | 12059168 | 2.8 | - | LSR | Red-brown | - |
| Plug | 15337197 | 2.8 | - | LSR | White | 2 |
| Plug | 10730124 | 2.8 | - | LSR | Green | 2 |
| Plug | 12066082 | 6.3 | - | LSR | Green | - |

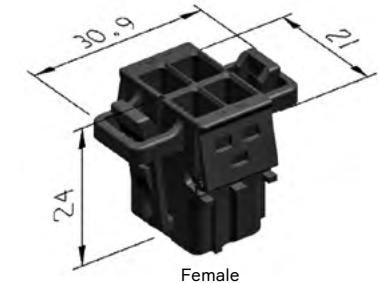
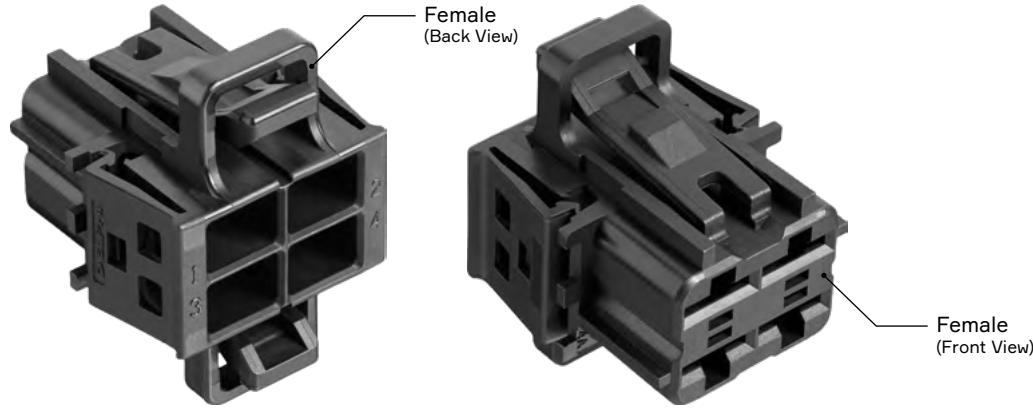
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CONNECTORS & ACCESSORIES



CTCS UNSEALED 6.3 4W

UNSEALED CONNECTION SYSTEM



APPLICATION

Inline or device
Cab

FEATURES

Material: HB flammability (PBT-GF15)
Female mounting: Universal
Cable range: 6.3: 0.5-6.0mm²

PERFORMANCE

Temperature range: -40 to +85°C
Vibration (Sine/Random): n/a G / 2.17Grms
Sealing IP (IEC/ISO): 5 / 5K
Terminal retention: F>60N/10s

CONNECTOR PART NUMBERS

| Description | V0 material part number | HB material part number | Mounting type | Index | Color |
|-------------|-------------------------|-------------------------|---------------|-------|-------|
| CTCS 6.3 F | - | 33136690 | None | A | Black |
| CTCS 6.3 F | - | 33136691 | None | B | Gray |

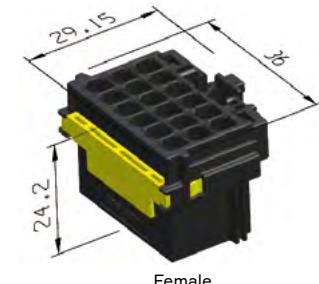
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CTCS UNSEALED 2.8 18W

UNSEALED CONNECTION SYSTEM



Female
(Front View)



APPLICATION

Inline or device
Cab

FEATURES

Material: HB flammability (PA66-GF14)
Female mounting: Universal
Cable range: 2.8: 0.5-5.0mm²

CONNECTOR PART NUMBERS

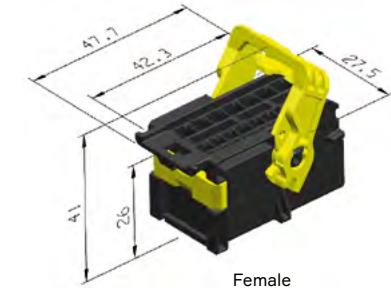
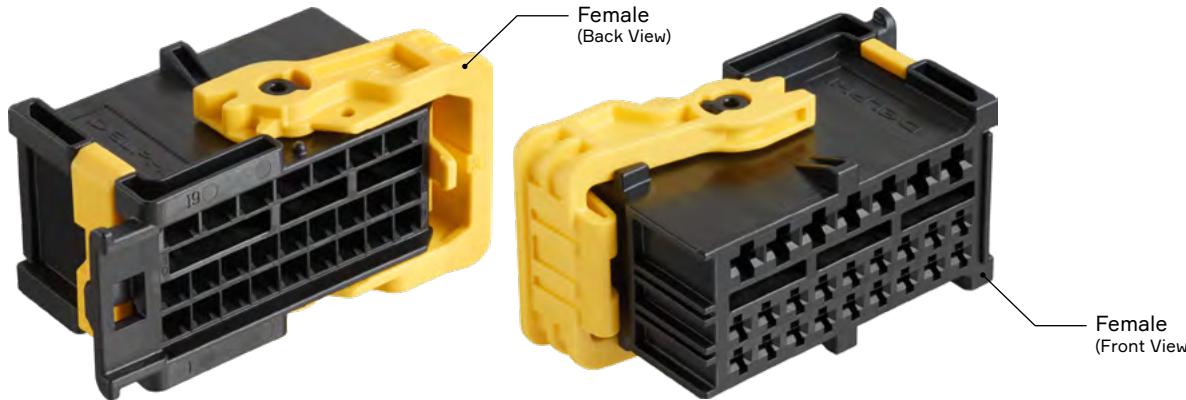
| Description | V0 material part number | HB material part number | Mounting type | Index | Color |
|-------------|-------------------------|-------------------------|---------------|-------|---------|
| CTCS 2.8 F | - | 35129604 | Universal | A | Natural |
| CTCS 2.8 F | - | 35129605 | Universal | B | Gray |
| CTCS 2.8 F | - | 33156624 | Universal | C | Blue |
| CTCS 2.8 F | - | 33156623 | Universal | D | Purple |

PERFORMANCE

Temperature range: -40 to +85°C
Vibration (Sine/Random): n/a G / 2.17Grms
Sealing IP (IEC/ISO): 5 / 5K
Terminal retention: F>60N/10s

CTCS UNSEALED 1.5/2.8 25W

UNSEALED CONNECTION SYSTEM



APPLICATION

Inline or device
Cab

FEATURES

| | |
|------------------|--|
| Material: | HB flammability (PBT-GF20) |
| Female mounting: | Universal |
| Cavity mix: | 1.5(18) / 2.8(7) |
| Cable range: | 1.5: 0.5-1.5mm ² 2.8: 0.5-5.0mm ² |

PERFORMANCE

| | |
|--------------------------|------------------|
| Temperature range: | -40 to +85°C |
| Vibration (Sine/Random): | n/a G / 2.17Grms |
| Sealing IP (IEC/ISO): | 5 / 5K |
| Terminal retention: | F>60N/10s |

CONNECTOR PART NUMBERS

| Description | V0 material part number | HB material part number | Mounting type | Index | Color |
|----------------|-------------------------|-------------------------|---------------|-------|-------|
| CTCS 1.5/2.8 F | - | 33219796 | Universal | A | Black |
| CTCS 1.5/2.8 F | - | 33219797 | Universal | B | Gray |
| CTCS 1.5/2.8 F | - | 33219798 | Universal | C | Blue |
| CTCS 1.5/2.8 F | - | 33219799 | Universal | D | Green |

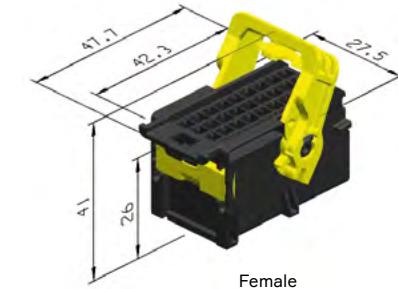
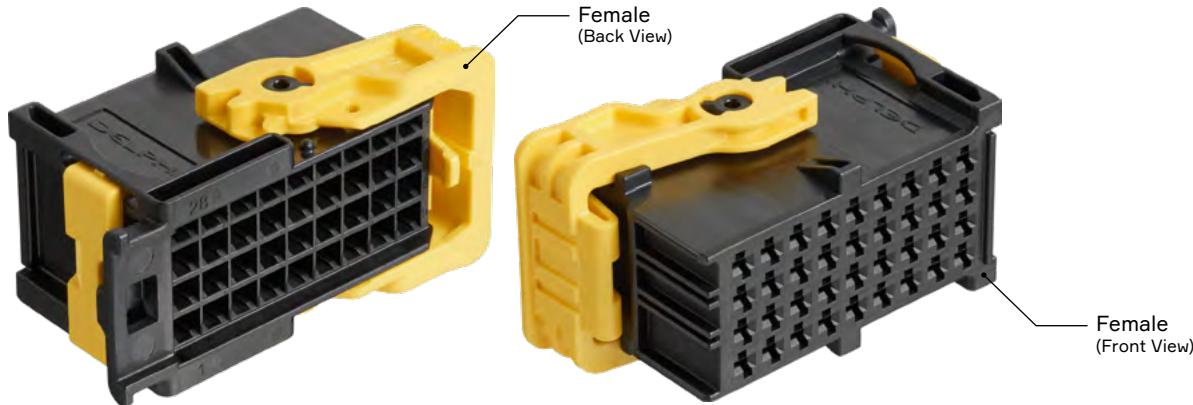
ACCESSORY PART NUMBERS

| Accessory | V0 material part number | HB material part number | Angle | Size | Color | Required or optional |
|----------------|-------------------------|-------------------------|-------|------|--------|----------------------|
| Secondary lock | - | 33219801 | - | - | Yellow | R |

Part numbers, specifications, dimensions and performance data in this document are for general references only and are subject to change without notice.
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CTCS UNSEALED 1.5 36W

UNSEALED CONNECTION SYSTEM



APPLICATION

Inline or device
Cab

FEATURES

Material: HB flammability (PBT-GF20)
Female mounting: Universal
Cable range: 1.5: 0.5-1.5mm²

PERFORMANCE

Temperature range: -40 to +85°C
Vibration (Sine/Random): n/a G / 2.17Grms
Sealing IP (IEC/ISO): 5 / 5K
Terminal retention: F>60N/10s

CONNECTOR PART NUMBERS

| Description | V0 material part number | HB material part number | Mounting type | Index | Color |
|-------------|-------------------------|-------------------------|---------------|-------|-----------|
| CTCS 1.5 F | - | 33252408 | Universal | A | Brown |
| CTCS 1.5 F | - | 33252409 | Universal | B | Violet |
| CTCS 1.5 F | - | 33252410 | Universal | C | Green |
| CTCS 1.5 F | - | 33252411 | Universal | D | Dark Blue |

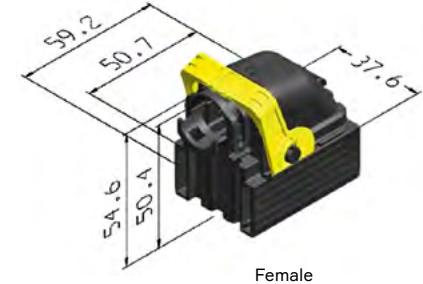
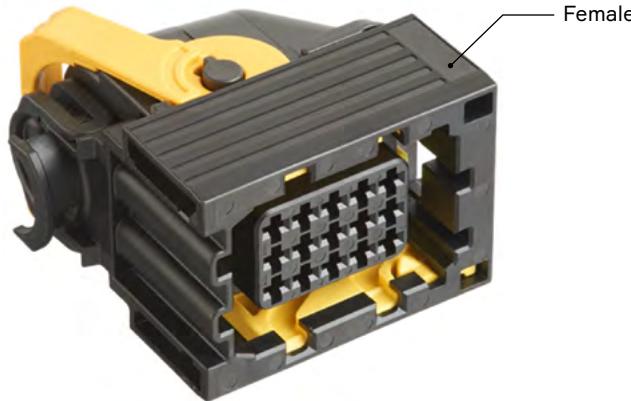
ACCESSORY PART NUMBERS

| Accessory | V0 material part number | HB material part number | Angle | Size | Color | Required or optional |
|----------------|-------------------------|-------------------------|-------|------|--------|----------------------|
| Secondary lock | - | 33252407 | - | - | Yellow | R |

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To verify product information, please contact an Aptiv representative.

CTCS SP 2.8 15W

SEALED CONNECTION SYSTEM



APPLICATION

Inline or device
Chassis or engine compartment

FEATURES

Material: V0 or HB flammability
Female mounting: Universal
Cable range: 2.8: 0.5-2.5mm²

PERFORMANCE

Temperature range: -40 to +120°C
Vibration (Sine/Random): 23.9G / 12.4Grms
Sealing IP (IEC/ISO): 67, 69 / 6K7, 6K9K
Terminal retention: F>60N/10s

CONNECTOR PART NUMBERS

| Description | V0 material part number | HB material part number | Mounting type | Index | Color |
|-------------|-------------------------|-------------------------|---------------|-------|---------|
| CTCS 2.8 F | 33276638 | 33188785 | Universal | A | Black |
| CTCS 2.8 F | 33276639 | 33188784 | Universal | B | Natural |
| CTCS 2.8 F | 33276640 | 33188783 | Universal | C | Blue |

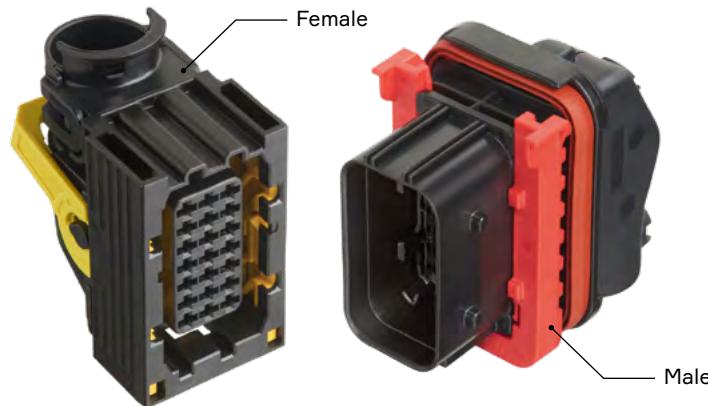
ACCESSORY PART NUMBERS

| Accessory | V0 material part number | HB material part number | Angle | Size | Color | Required or optional |
|-------------------------|-------------------------|-------------------------|-------|------|-------|----------------------|
| Female back shell/lever | 33276642 | 33200044 | 90 | - | Black | R |

Part numbers, specifications, dimensions and performance data in this document are for general references only and are subject to change without notice.
To verify product information, please contact an Aptiv representative.

CTCS SP 2.8 21W

SEALED CONNECTION SYSTEM



APPLICATION

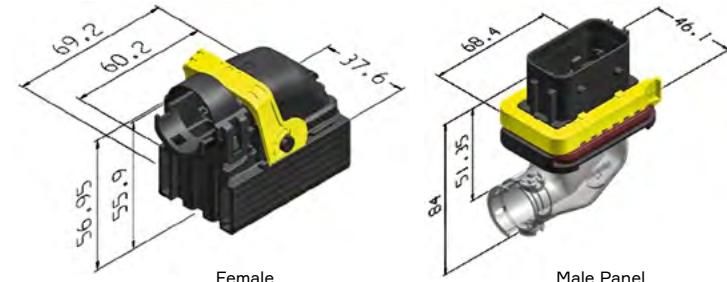
Inline or device
Chassis or engine compartment

FEATURES

| | |
|------------------|-----------------------------|
| Material: | V0 or HB flammability |
| Female mounting: | Universal |
| Male mounting: | Panel |
| Cable range: | 2.8: 0.5-2.5mm ² |

PERFORMANCE

| | |
|--------------------------|--------------------|
| Temperature range: | -40 to +120°C |
| Vibration (Sine/Random): | 23.9G / 12.4Grms |
| Sealing IP (IEC/ISO): | 67, 69 / 6K7, 6K9K |
| Terminal retention: | F>60N/10s |



CONNECTOR PART NUMBERS

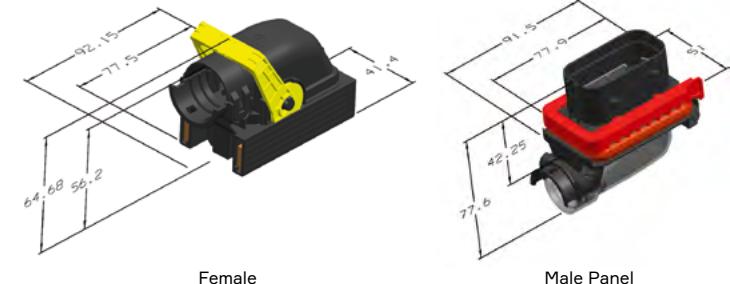
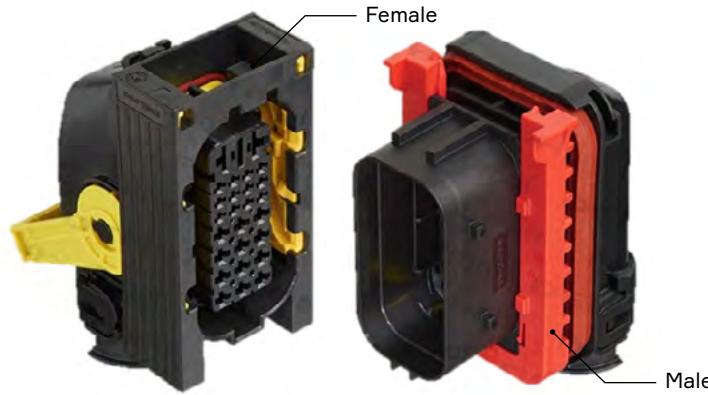
| Description | V0 material part number | HB material part number | Mounting type | Index | Color |
|-------------|-------------------------|-------------------------|---------------|-------|---------|
| CTCS 2.8 F | 33276630 | 33101162 | Universal | A | Black |
| CTCS 2.8 F | 33276631 | 33101320 | Universal | B | Natural |
| CTCS 2.8 F | 33276632 | 33101321 | Universal | C | Blue |
| CTCS 2.8 F | 33276633 | 33101322 | Universal | D | Purple |
| CTCS 2.8 M | 33276634 | 33237993 | Panel | A | Black |
| CTCS 2.8 M | 33276635 | 33237994 | Panel | B | Natural |
| CTCS 2.8 M | 33276636 | 33237995 | Panel | C | Blue |
| CTCS 2.8 M | 33276637 | 33237996 | Panel | D | Purple |

ACCESSORY PART NUMBERS

See **Accessory Section / group F** on page 49

CTCS SP 1.5/2.8/6.3 26W

SEALED CONNECTION SYSTEM



APPLICATION

Inline or device
Chassis or engine compartment

FEATURES

Material: V0 or HB flammability
Female mounting: Universal
Male mounting: Panel
Cavity mix: 1.5(12) / 2.8(12) / 6.3(2)
Cable range:
1.5: 0.5-1.0mm²
2.8: 0.5-2.5mm²
6.3: 0.5-6.0mm²

PERFORMANCE

Temperature range: -40 to +120°C
Vibration (Sine/Random): 23.9G / 12.4Grms
Sealing IP (IEC/ISO): 67, 69 / 6K7, 6K9K
Terminal retention: F>60N/10s

CONNECTOR PART NUMBERS

| Description | V0 material part number | HB material part number | Mounting type | Index | Color |
|--------------------|-------------------------|-------------------------|---------------|-------|-------|
| CTCS 1.5/2.8/6.3 F | 33283998 | 33207220 | Universal | A | Black |
| CTCS 1.5/2.8/6.3 F | 33283999 | 33207221 | Universal | B | Gray |
| CTCS 1.5/2.8/6.3 F | 33284000 | 33207222 | Universal | C | Blue |
| CTCS 1.5/2.8/6.3 F | 33284001 | 33207223 | Universal | D | Green |
| CTCS 1.5/2.8/6.3 M | 33284519 | 33207134 | Panel | A | Black |
| CTCS 1.5/2.8/6.3 M | 33284520 | 33207138 | Panel | B | Gray |
| CTCS 1.5/2.8/6.3 M | 33284521 | 33207143 | Panel | C | Blue |
| CTCS 1.5/2.8/6.3 M | 33284522 | 33207144 | Panel | D | Green |

ACCESSORY PART NUMBERS

See **Accessory Section / group G** on page 49

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CTCS SP 2.8 39W

SEALED CONNECTION SYSTEM



APPLICATION

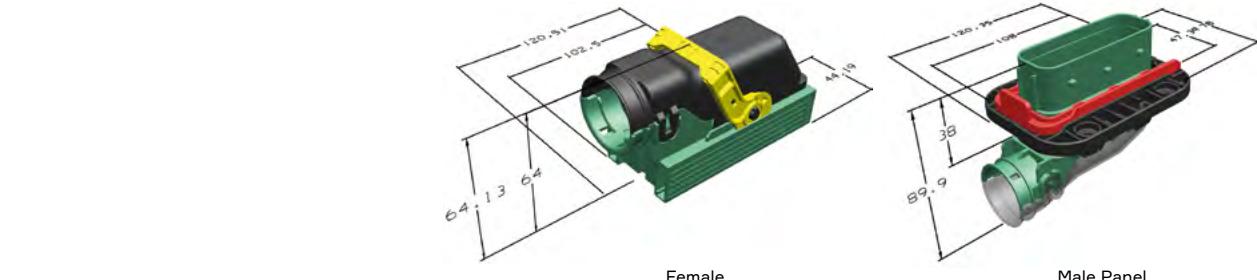
| |
|--|
| Inline or device |
| Chassis, engine compartment or on-engine |

FEATURES

| | |
|------------------|-----------------------------|
| Material: | V0 or HB flammability |
| Female mounting: | Universal |
| Male mounting: | Pass-thru Bracket |
| Cable range: | 2.8: 0.5-2.5mm ² |

PERFORMANCE

| | |
|--------------------------|--------------------|
| Temperature range: | -40 to +120°C |
| Vibration (Sine/Random): | 23.9G / 12.4Grms |
| Sealing IP (IEC/ISO): | 67, 69 / 6K7, 6K9K |
| Terminal retention: | F>60N/10s |



CONNECTOR PART NUMBERS

| Description | V0 material part number | HB material part number | Mounting type | Index | Color |
|-------------|-------------------------|-------------------------|-------------------|-------|-------|
| CTCS 2.8 F | 33273782 | 33111401 | Universal | A | Green |
| CTCS 2.8 F | 33273783 | 33111402 | Universal | B | Brown |
| CTCS 2.8 M | 33276705 | 33198862 | Pass-thru Bracket | A | Green |
| CTCS 2.8 M | 33276706 | 33198863 | Pass-thru Bracket | B | Brown |

ACCESSORY PART NUMBERS

See **Accessory Section / group H** on page 49

CTCS SP 1.5/2.8 62W

SEALED CONNECTION SYSTEM



APPLICATION

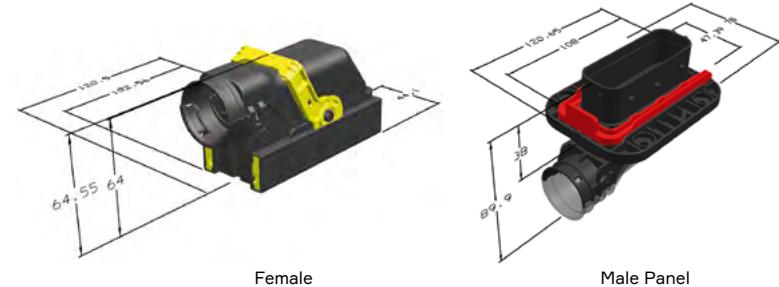
- Inline or device
- Chassis or engine compartment

FEATURES

| | |
|------------------|--|
| Material: | V0 or HB flammability |
| Female mounting: | Universal |
| Male mounting: | Pass-thru Bracket |
| Cavity mix: | 1.5(56)/2.8(6) |
| Cable range: | 1.5: 0.5-1.0mm ² 2.8: 0.5-2.5mm ² |

PERFORMANCE

| | |
|--------------------------|--------------------|
| Temperature range: | -40 to +120°C |
| Vibration (Sine/Random): | 23.9G / 12.4Grms |
| Sealing IP (IEC/ISO): | 67, 69 / 6K7, 6K9K |
| Terminal retention: | F>60N/10s |



CONNECTOR PART NUMBERS

| Description | V0 material part number | HB material part number | Mounting type | Index | Color |
|----------------|-------------------------|-------------------------|-------------------|-------|-------|
| CTCS 1.5/2.8 F | 33337581 | 33337577 | Universal | A | Black |
| CTCS 1.5/2.8 F | 33337582 | 33337578 | Universal | B | Gray |
| CTCS 1.5/2.8 F | 33337583 | 33337579 | Universal | C | Blue |
| CTCS 1.5/2.8 F | 33337584 | 33337580 | Universal | D | Green |
| CTCS 1.5/2.8 M | 33276719 | 33213199 | Pass-thru Bracket | A | Black |
| CTCS 1.5/2.8 M | 33276720 | 33213200 | Pass-thru Bracket | B | Gray |
| CTCS 1.5/2.8 M | 33276721 | 33213201 | Pass-thru Bracket | C | Blue |
| CTCS 1.5/2.8 M | 33276722 | 33213202 | Pass-thru Bracket | D | Green |

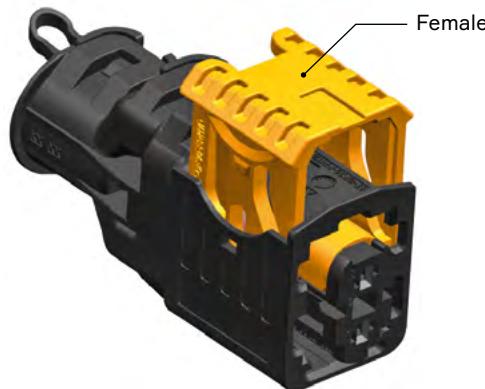
ACCESSORY PART NUMBERS

See **Accessory Section / group H** on page 49

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CTCS XP 1.5 2W

SEALED CONNECTION SYSTEM



APPLICATION

Inline or device
Chassis, engine compartment or on-engine

FEATURES

Material: V0 or HB flammability
Female mounting: Universal
Cable range: 1.5: 0.5-1.0mm²

PERFORMANCE

Temperature range: -40 to +140°C
Vibration (Sine/Random): 30.6G / 18Grms
Sealing IP (IEC/ISO): 67, 69 / 6K7, 6K9K
Terminal retention: F>60N/10s

CONNECTOR PART NUMBERS

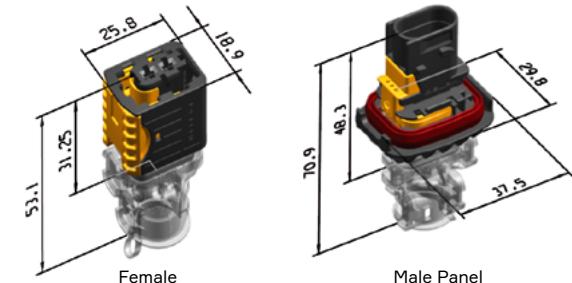
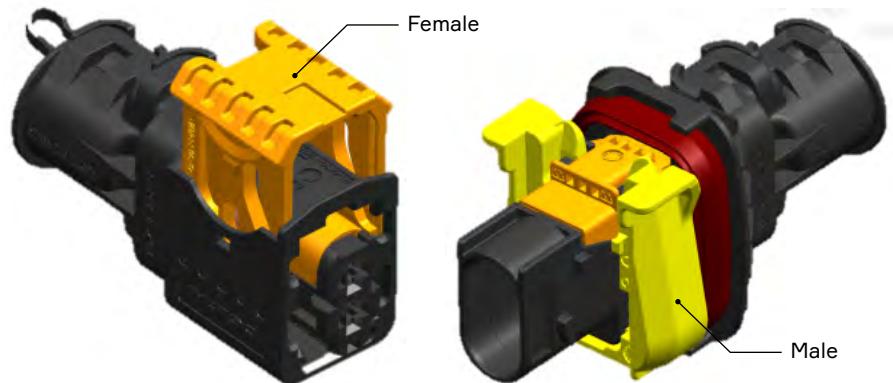
| Description | V0 material part number | HB material part number | Mounting type | Index | Color |
|-------------|-------------------------|-------------------------|---------------|-------|-------|
| CTCS 1.5 F | 33253266 | 33344638 | Universal | A | Black |
| CTCS 1.5 F | 33253267 | 33344640 | Universal | B | Gray |
| CTCS 1.5 F | 33253268 | 33344641 | Universal | C | Green |
| CTCS 1.5 F | 33253269 | 33344673 | Universal | D | Blue |

ACCESSORY PART NUMBERS

See **Accessory Section / group A** on page 47

CTCS XP 2.8 2W

SEALED CONNECTION SYSTEM



APPLICATION

| |
|--|
| Inline or device |
| Chassis, engine compartment or on-engine |

FEATURES

| | |
|------------------|-----------------------------|
| Material: | V0 or HB flammability |
| Female mounting: | Universal |
| Male mounting: | Panel |
| Cable range: | 2.8: 0.5-2.5mm ² |

PERFORMANCE

| | |
|--------------------------|--------------------|
| Temperature range: | -40 to +140°C |
| Vibration (Sine/Random): | 30.6G / 18Grms |
| Sealing IP (IEC/ISO): | 67, 69 / 6K7, 6K9K |
| Terminal retention: | F>60N/10s |

CONNECTOR PART NUMBERS

| Description | V0 material part number | HB material part number | Mounting type | Index | Color |
|-------------|-------------------------|-------------------------|---------------|-------|-------|
| CTCS 2.8 F | 33253554 | 33344639 | Universal | A | Black |
| CTCS 2.8 F | 33253557 | 33344649 | Universal | B | Gray |
| CTCS 2.8 F | 33253560 | 33344650 | Universal | C | Green |
| CTCS 2.8 F | 33253563 | 33344652 | Universal | D | Blue |
| CTCS 2.8 M | 33254221 | 33344850 | Panel | A | Black |
| CTCS 2.8 M | 33254220 | 33344852 | Panel | B | Gray |
| CTCS 2.8 M | 33254108 | 33344868 | Panel | C | Green |
| CTCS 2.8 M | 33254107 | 33344877 | Panel | D | Blue |

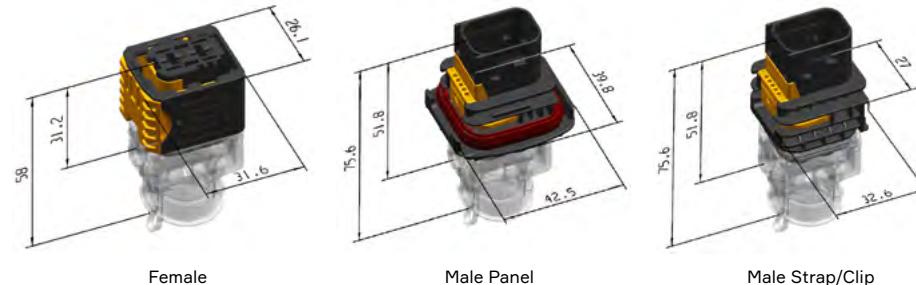
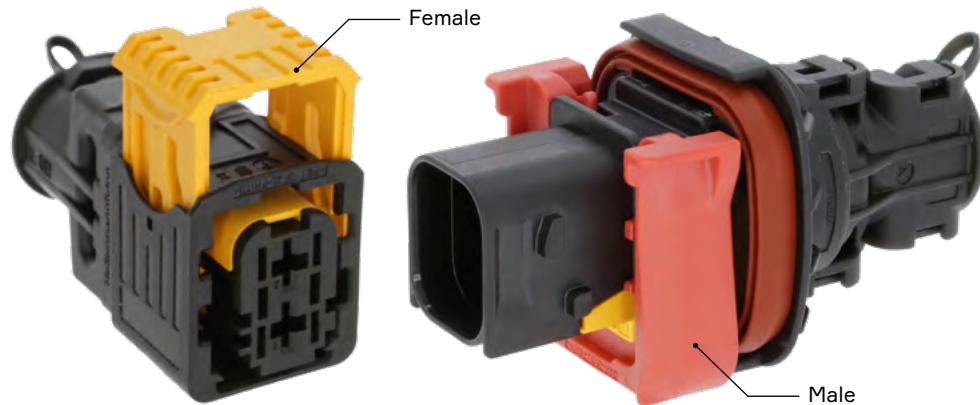
ACCESSORY PART NUMBERS

See **Accessory Section / group A** on page 47

Part numbers, specifications, dimensions and performance data in this document are for general references only and are subject to change without notice. To verify product information, please contact an Aptiv representative.

CTCS XP 6.3 2W

SEALED CONNECTION SYSTEM



APPLICATION

| | |
|--|--|
| Inline or device | |
| Chassis, engine compartment or on-engine | |

FEATURES

| | |
|------------------|-----------------------------|
| Material: | V0 or HB flammability |
| Female mounting: | Universal |
| Male mounting: | Panel or Strap/Clip |
| Cable range: | 6.3: 0.5-6.0mm ² |

PERFORMANCE

| | |
|--------------------------|--------------------|
| Temperature range: | -40 to +140°C |
| Vibration (Sine/Random): | 30.6G / 18Grms |
| Sealing IP (IEC/ISO): | 67, 69 / 6K7, 6K9K |
| Terminal retention: | F>60N/10s |

CONNECTOR PART NUMBERS

| Description | V0 material part number | HB material part number | Mounting type | Index | Color |
|-------------|-------------------------|-------------------------|---------------|-------|-------|
| CTCS 6.3 F | 33285119 | 33346221 | Universal | A | Black |
| CTCS 6.3 F | 33341146 | 33347788 | Universal | B | Gray |
| CTCS 6.3 F | 33341398 | 33347816 | Universal | C | Green |
| CTCS 6.3 F | 33341399 | 33347802 | Universal | D | Blue |
| CTCS 6.3 M | 33285118 | 33346220 | Panel | A | Black |
| CTCS 6.3 M | 33341143 | 33347781 | Panel | B | Gray |
| CTCS 6.3 M | 33341144 | 33347782 | Panel | C | Green |
| CTCS 6.3 M | 33341145 | 33347783 | Panel | D | Blue |
| CTCS 6.3 M | 33341148 | 33347784 | Strap/Clip | A | Black |
| CTCS 6.3 M | 33341400 | 33347785 | Strap/Clip | B | Gray |
| CTCS 6.3 M | 33341401 | 33347786 | Strap/Clip | C | Green |
| CTCS 6.3 M | 33341402 | 33347787 | Strap/Clip | D | Blue |

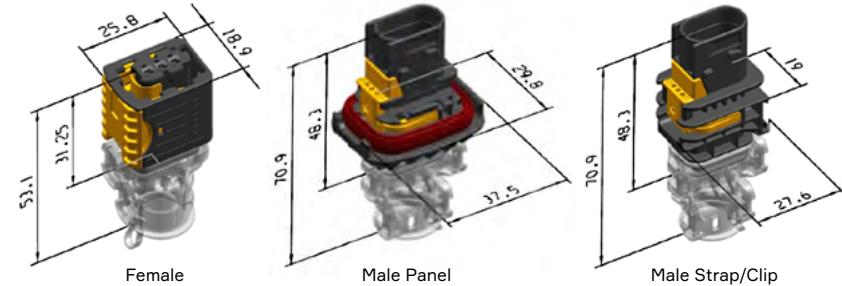
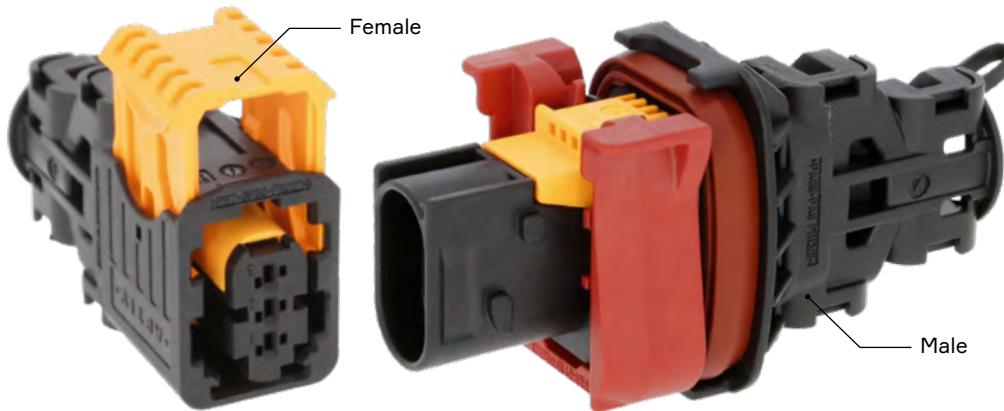
ACCESSORY PART NUMBERS

See **Accessory Section / group C** on page 48

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CTCS XP 1.5 3W

SEALED CONNECTION SYSTEM



APPLICATION

| | |
|--|--|
| Inline or device | |
| Chassis, engine compartment or on-engine | |

FEATURES

| | |
|------------------|-----------------------------|
| Material: | V0 or HB flammability |
| Female mounting: | Universal |
| Male mounting: | Panel or Strap/Clip |
| Cable range: | 1.5: 0.5-1.0mm ² |

PERFORMANCE

| | |
|--------------------------|--------------------|
| Temperature range: | -40 to +140°C |
| Vibration (Sine/Random): | 30.6G / 18Grms |
| Sealing IP (IEC/ISO): | 67, 69 / 6K7, 6K9K |
| Terminal retention: | F>60N/10s |

CONNECTOR PART NUMBERS

| Description | V0 material part number | HB material part number | Mounting type | Index | Color |
|-------------|-------------------------|-------------------------|---------------|-------|-------|
| CTCS 1.5 F | 33253275 | 33344674 | Universal | A | Black |
| CTCS 1.5 F | 33253276 | 33344675 | Universal | B | Gray |
| CTCS 1.5 F | 33253277 | 33344676 | Universal | C | Green |
| CTCS 1.5 F | 33253551 | 33344635 | Universal | D | Blue |
| CTCS 1.5 M | 33254285 | 33344669 | Panel | A | Black |
| CTCS 1.5 M | 33254281 | 33344671 | Panel | B | Gray |
| CTCS 1.5 M | 33254267 | 33344672 | Panel | C | Green |
| CTCS 1.5 M | 33254231 | 33344827 | Panel | D | Blue |
| CTCS 1.5 M | 33254098 | 33344861 | Strap/Clip | A | Black |
| CTCS 1.5 M | 33254088 | 33344862 | Strap/Clip | B | Gray |
| CTCS 1.5 M | 33254085 | 33344863 | Strap/Clip | C | Green |
| CTCS 1.5 M | 33254084 | 33344864 | Strap/Clip | D | Blue |

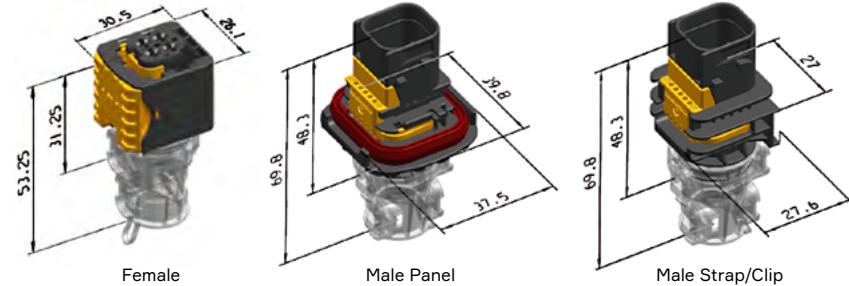
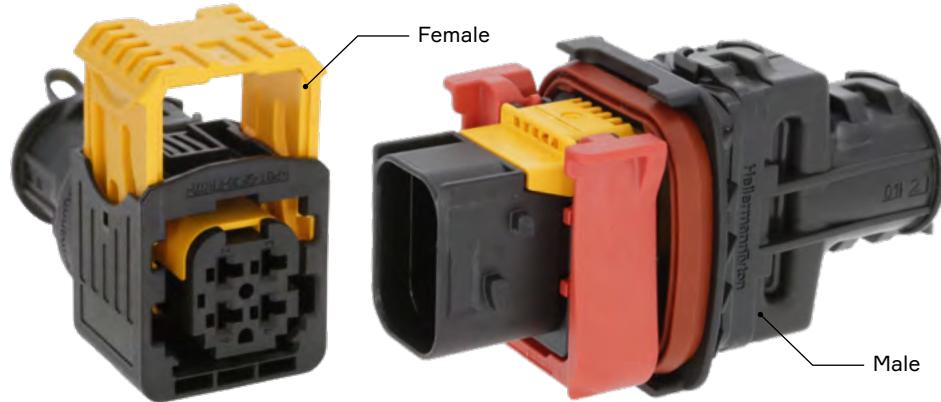
ACCESSORY PART NUMBERS

See **Accessory Section / group A** on page 47

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CTCS XP 2.8 4W

SEALED CONNECTION SYSTEM



APPLICATION

| | |
|--|--|
| Inline or device | |
| Chassis, engine compartment or on-engine | |

FEATURES

| | |
|------------------|-----------------------------|
| Material: | V0 or HB flammability |
| Female mounting: | Universal |
| Male mounting: | Panel or Strap/Clip |
| Cable range: | 2.8: 0.5-2.5mm ² |

PERFORMANCE

| | |
|--------------------------|--------------------|
| Temperature range: | -40 to +140°C |
| Vibration (Sine/Random): | 30.6G / 18Grms |
| Sealing IP (IEC/ISO): | 67, 69 / 6K7, 6K9K |
| Terminal retention: | F>60N/10s |

CONNECTOR PART NUMBERS

| Description | V0 material part number | HB material part number | Mounting type | Index | Color |
|-------------|-------------------------|-------------------------|---------------|-------|-------|
| CTCS 2.8 F | 33308974 | 33346865 | Universal | A | Black |
| CTCS 2.8 F | 33308975 | 33346862 | Universal | B | Gray |
| CTCS 2.8 F | 33308976 | 33346860 | Universal | C | Green |
| CTCS 2.8 F | 33308977 | 33346858 | Universal | D | Blue |
| CTCS 2.8 M | 33308731 | 33346867 | Panel | A | Black |
| CTCS 2.8 M | 33308735 | 33347789 | Panel | B | Gray |
| CTCS 2.8 M | 33308962 | 33347791 | Panel | C | Green |
| CTCS 2.8 M | 33308973 | 33347794 | Panel | D | Blue |
| CTCS 2.8 M | 33308978 | 33346866 | Strap/Clip | A | Black |
| CTCS 2.8 M | 33308979 | 33347795 | Strap/Clip | B | Gray |
| CTCS 2.8 M | 33308980 | 33347798 | Strap/Clip | C | Green |
| CTCS 2.8 M | 33308981 | 33347799 | Strap/Clip | D | Blue |

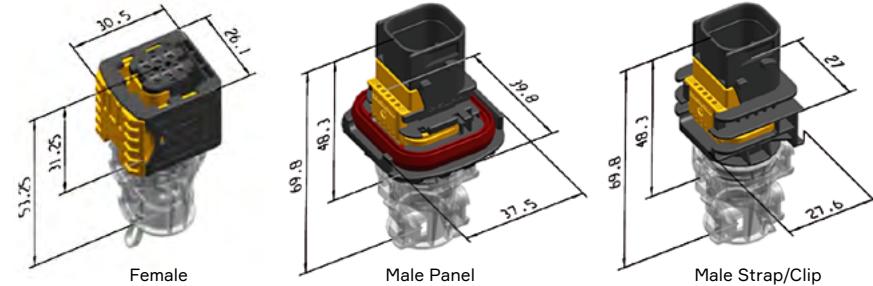
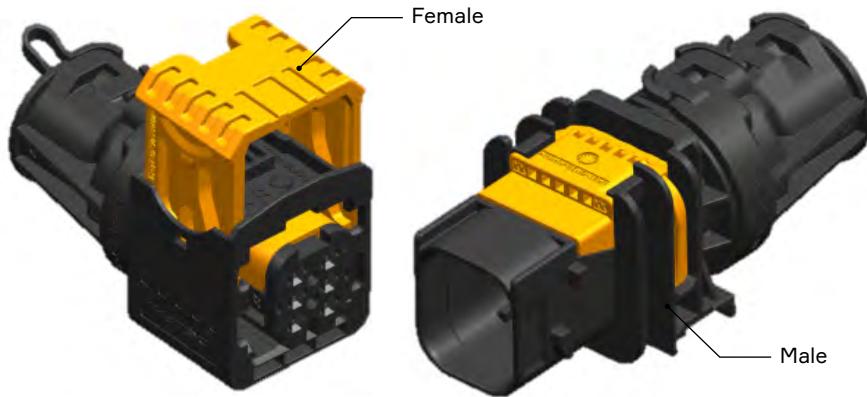
ACCESSORY PART NUMBERS

See **Accessory Section / group B** on page 47

Part numbers, specifications, dimensions and performance data in this document are for general references only and are subject to change without notice. To verify product information, please contact an Aptiv representative.

CTCS XP 1.5 6W

SEALED CONNECTION SYSTEM



APPLICATION

| | |
|--|--|
| Inline or device | |
| Chassis, engine compartment or on-engine | |

FEATURES

| | |
|------------------|-----------------------------|
| Material: | V0 or HB flammability |
| Female mounting: | Universal |
| Male mounting: | Panel or Strap/Clip |
| Cable range: | 1.5: 0.5-1.0mm ² |

PERFORMANCE

| | |
|--------------------------|--------------------|
| Temperature range: | -40 to +140°C |
| Vibration (Sine/Random): | 30.6G / 18Grms |
| Sealing IP (IEC/ISO): | 67, 69 / 6K7, 6K9K |
| Terminal retention: | F>60N/10s |

CONNECTOR PART NUMBERS

| Description | V0 material part number | HB material part number | Mounting type | Index | Color |
|-------------|-------------------------|-------------------------|---------------|-------|-------|
| CTCS 1.5 F | 33308961 | 33346852 | Universal | A | Black |
| CTCS 1.5 F | 33308963 | 33347848 | Universal | B | Gray |
| CTCS 1.5 F | 33308964 | 33347849 | Universal | C | Green |
| CTCS 1.5 F | 33308965 | 33347850 | Universal | D | Blue |
| CTCS 1.5 M | 33308982 | 33347865 | Panel | A | Black |
| CTCS 1.5 M | 33308909 | 33347867 | Panel | B | Gray |
| CTCS 1.5 M | 33308910 | 33347868 | Panel | C | Green |
| CTCS 1.5 M | 33308911 | 33347869 | Panel | D | Blue |
| CTCS 1.5 M | 33308912 | 33347886 | Strap/Clip | A | Black |
| CTCS 1.5 M | 33308913 | 33347887 | Strap/Clip | B | Gray |
| CTCS 1.5 M | 33308914 | 33347888 | Strap/Clip | C | Green |
| CTCS 1.5 M | 33308915 | 33347889 | Strap/Clip | D | Blue |

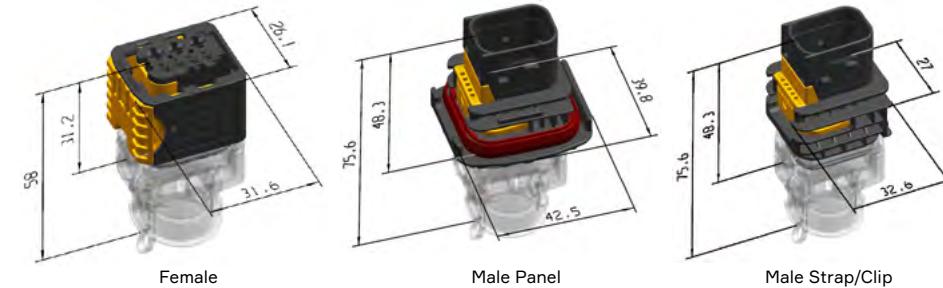
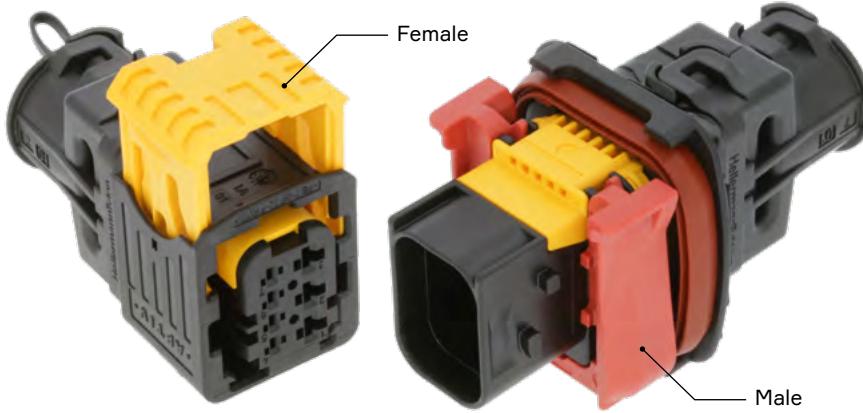
ACCESSORY PART NUMBERS

See **Accessory Section / group B** on page 47

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CTCS XP 1.5/2.8 7W

SEALED CONNECTION SYSTEM



APPLICATION

| | |
|--|--|
| Inline or device | |
| Chassis, engine compartment or on-engine | |

FEATURES

| | |
|------------------|--|
| Material: | V0 or HB flammability |
| Female mounting: | Universal |
| Male mounting: | Panel or Strap/Clip |
| Cavity mix: | 1.5(4) / 2.8(3) |
| Cable range: | 1.5: 0.5-1.0mm ² 2.8: 0.5-2.5mm ² |

PERFORMANCE

| | |
|--------------------------|--------------------|
| Temperature range: | -40 to +140°C |
| Vibration (Sine/Random): | 30.6G / 18Grms |
| Sealing IP (IEC/ISO): | 67, 69 / 6K7, 6K9K |
| Terminal retention: | F>60N/10s |

CONNECTOR PART NUMBERS

| Description | V0 material part number | HB material part number | Mounting type | Index | Color |
|----------------|-------------------------|-------------------------|---------------|-------|-------|
| CTCS 1.5/2.8 F | 33285164 | 33346265 | Universal | A | Black |
| CTCS 1.5/2.8 F | 33285165 | 33347851 | Universal | B | Gray |
| CTCS 1.5/2.8 F | 33285167 | 33347841 | Universal | C | Green |
| CTCS 1.5/2.8 F | 33285168 | 33347822 | Universal | D | Blue |
| CTCS 1.5/2.8 M | 33285120 | 33346256 | Panel | A | Black |
| CTCS 1.5/2.8 M | 33285146 | 33347542 | Panel | B | Gray |
| CTCS 1.5/2.8 M | 33285152 | 33347858 | Panel | C | Green |
| CTCS 1.5/2.8 M | 33285160 | 33347855 | Panel | D | Blue |
| CTCS 1.5/2.8 M | 33341403 | 33346260 | Strap/Clip | A | Black |
| CTCS 1.5/2.8 M | 33341405 | 33347854 | Strap/Clip | B | Gray |
| CTCS 1.5/2.8 M | 33341406 | 33347853 | Strap/Clip | C | Green |
| CTCS 1.5/2.8 M | 33341407 | 33347852 | Strap/Clip | D | Blue |

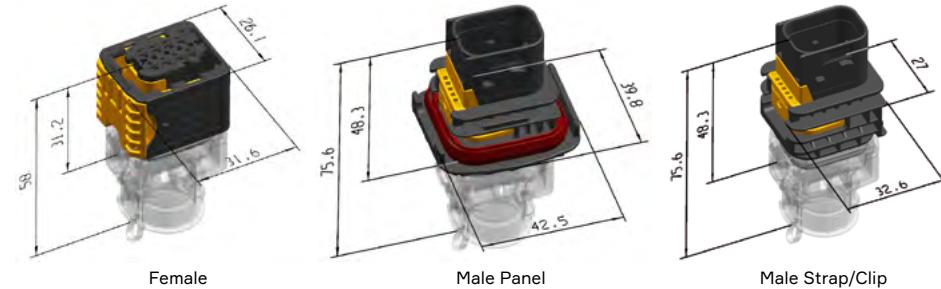
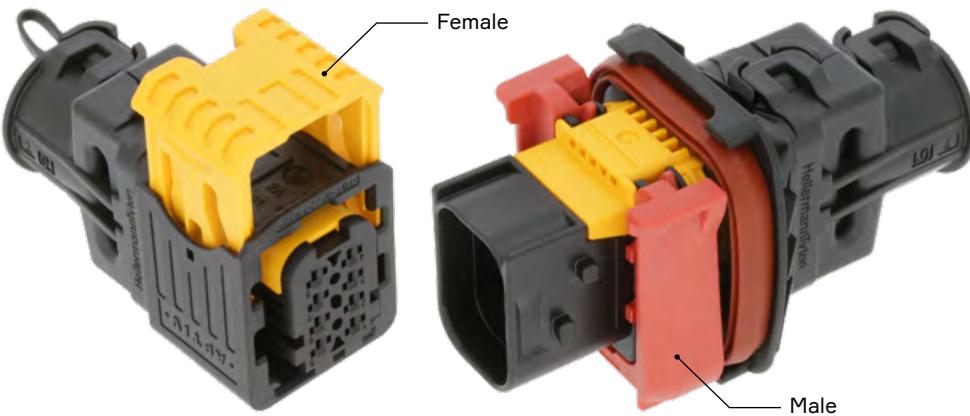
ACCESSORY PART NUMBERS

See **Accessory Section / group C** on page 48

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CTCS XP 1.5 8W

SEALED CONNECTION SYSTEM



APPLICATION

Inline or device
Chassis, engine compartment or on-engine

FEATURES

| | |
|------------------|-----------------------------|
| Material: | V0 or HB flammability |
| Female mounting: | Universal |
| Male mounting: | Panel or Strap/Clip |
| Cable range: | 1.5: 0.5-1.0mm ² |

PERFORMANCE

| | |
|--------------------------|--------------------|
| Temperature range: | -40 to +140°C |
| Vibration (Sine/Random): | 30.6G / 18Grms |
| Sealing IP (IEC/ISO): | 67, 69 / 6K7, 6K9K |
| Terminal retention: | F>60N/10s |

CONNECTOR PART NUMBERS

| Description | V0 material part number | HB material part number | Mounting type | Index | Color |
|-------------|-------------------------|-------------------------|---------------|-------|-------|
| CTCS 1.5 F | 33341417 | 33346281 | Universal | A | Black |
| CTCS 1.5 F | 33341418 | 33347538 | Universal | B | Gray |
| CTCS 1.5 F | 33341419 | 33347539 | Universal | C | Green |
| CTCS 1.5 F | 33341420 | 33347541 | Universal | D | Blue |
| CTCS 1.5 M | 33341408 | 33346266 | Panel | A | Black |
| CTCS 1.5 M | 33341409 | 33347518 | Panel | B | Gray |
| CTCS 1.5 M | 33341410 | 33347519 | Panel | C | Green |
| CTCS 1.5 M | 33341411 | 33347530 | Panel | D | Blue |
| CTCS 1.5 M | 33341413 | 33347532 | Strap/Clip | A | Black |
| CTCS 1.5 M | 33341414 | 33347533 | Strap/Clip | B | Gray |
| CTCS 1.5 M | 33341415 | 33347535 | Strap/Clip | C | Green |
| CTCS 1.5 M | 33341416 | 33347537 | Strap/Clip | D | Blue |

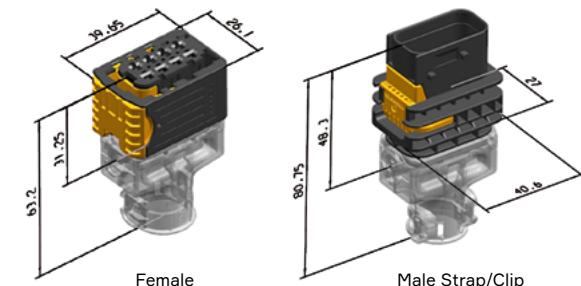
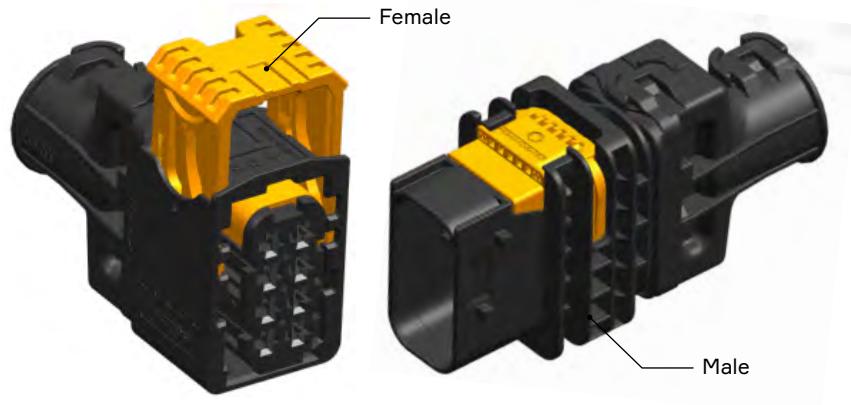
ACCESSORY PART NUMBERS

See **Accessory Section / group C** on page 48

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CTCS XP 2.8 8W

SEALED CONNECTION SYSTEM



APPLICATION

| | |
|--|--|
| Inline or device | |
| Chassis, engine compartment or on-engine | |

FEATURES

| | |
|------------------|-----------------------------|
| Material: | V0 or HB flammability |
| Female mounting: | Universal |
| Male mounting: | Panel or Strap/Clip |
| Cable range: | 1.5: 0.5-1.0mm ² |

PERFORMANCE

| | |
|--------------------------|--------------------|
| Temperature range: | -40 to +140°C |
| Vibration (Sine/Random): | 30.6G / 18Grms |
| Sealing IP (IEC/ISO): | 67, 69 / 6K7, 6K9K |
| Terminal retention: | F>60N/10s |

CONNECTOR PART NUMBERS

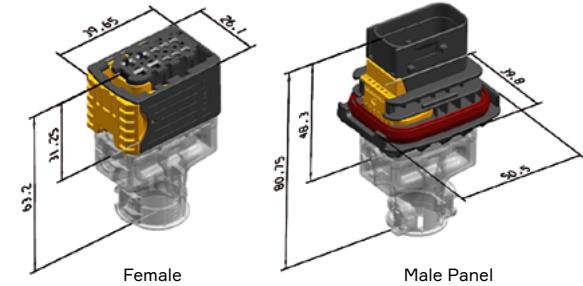
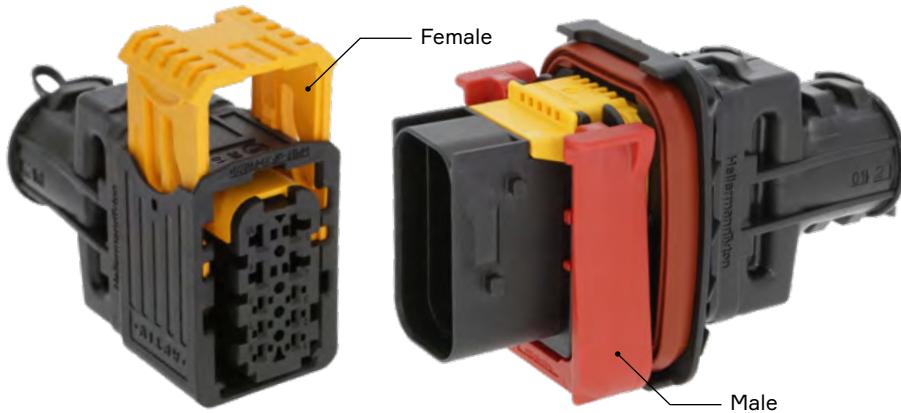
| Description | V0 material part number | HB material part number | Mounting type | Index | Color |
|-------------|-------------------------|-------------------------|---------------|-------|-------|
| CTCS 2.8 F | 33343499 | 33350336 | Universal | A | Black |
| CTCS 2.8 F | 33343508 | 33350418 | Universal | B | Gray |
| CTCS 2.8 F | 33343688 | 33350416 | Universal | C | Green |
| CTCS 2.8 F | 33343686 | 33350413 | Universal | D | Blue |
| CTCS 2.8 M | 35015736 | 35015732 | Strap/Clip | A | Black |
| CTCS 2.8 M | 35015735 | 35015739 | Strap/Clip | B | Gray |
| CTCS 2.8 M | 35015734 | 35015738 | Strap/Clip | C | Green |
| CTCS 2.8 M | 35015733 | 35015737 | Strap/Clip | D | Blue |

ACCESSORY PART NUMBERS

See **Accessory Section / group D** on page 48

CTCS XP 1.5/2.8 10W

SEALED CONNECTION SYSTEM



APPLICATION

| |
|--|
| Inline or device |
| Chassis, engine compartment or on-engine |

FEATURES

| | |
|------------------|--|
| Material: | V0 or HB flammability |
| Female mounting: | Universal |
| Male mounting: | Panel |
| Cavity mix: | 1.5(6) / 2.8(4) |
| Cable range: | 1.5: 0.5-1.0mm ² 2.8: 0.5-2.5mm ² |

PERFORMANCE

| | |
|--------------------------|--------------------|
| Temperature range: | -40 to +140°C |
| Vibration (Sine/Random): | 30.6G / 18Grms |
| Sealing IP (IEC/ISO): | 67, 69 / 6K7, 6K9K |
| Terminal retention: | F>60N/10s |

CONNECTOR PART NUMBERS

| Description | V0 material part number | HB material part number | Mounting type | Index | Color |
|----------------|-------------------------|-------------------------|---------------|-------|-------|
| CTCS 1.5/2.8 F | 33344008 | 33350438 | Universal | A | Black |
| CTCS 1.5/2.8 F | 33344013 | 33350257 | Universal | B | Gray |
| CTCS 1.5/2.8 F | 33344014 | 33350258 | Universal | C | Green |
| CTCS 1.5/2.8 F | 33344017 | 33350259 | Universal | D | Blue |
| CTCS 1.5/2.8 M | 33343722 | 33350430 | Panel | A | Black |
| CTCS 1.5/2.8 M | 33343766 | 33350431 | Panel | B | Gray |
| CTCS 1.5/2.8 M | 33343767 | 33350432 | Panel | C | Green |
| CTCS 1.5/2.8 M | 33343773 | 33350433 | Panel | D | Blue |

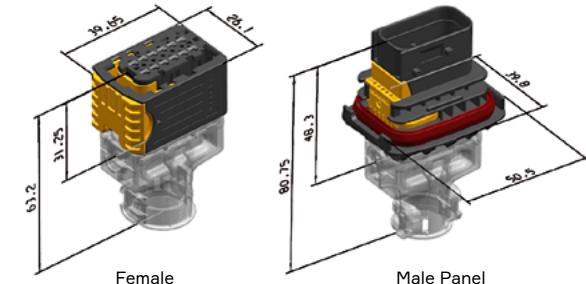
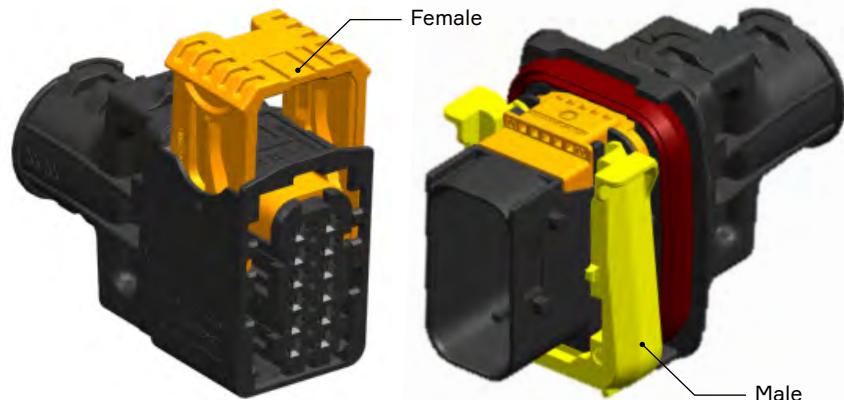
ACCESSORY PART NUMBERS

See **Accessory Section / group D** on page 48

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CTCS XP 1.5 12W

SEALED CONNECTION SYSTEM



APPLICATION

| | |
|--|--|
| Inline or device | |
| Chassis, engine compartment or on-engine | |

FEATURES

| | |
|------------------|-----------------------------|
| Material: | V0 or HB flammability |
| Female mounting: | Universal |
| Male mounting: | Panel |
| Cable range: | 1.5: 0.5-1.0mm ² |

PERFORMANCE

| | |
|--------------------------|--------------------|
| Temperature range: | -40 to +140°C |
| Vibration (Sine/Random): | 30.6G / 18Grms |
| Sealing IP (IEC/ISO): | 67, 69 / 6K7, 6K9K |
| Terminal retention: | F>60N/10s |

CONNECTOR PART NUMBERS

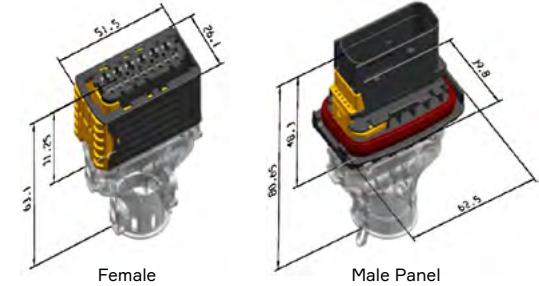
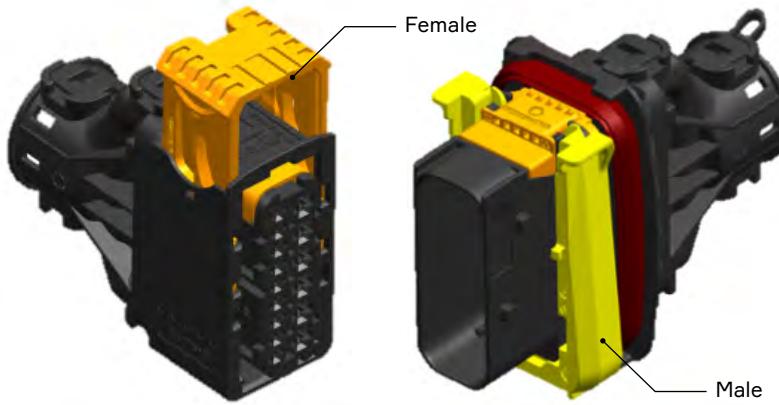
| Description | V0 material part number | HB material part number | Mounting type | Index | Color |
|-------------|-------------------------|-------------------------|---------------|-------|-------|
| CTCS 1.5 F | 33340130 | 33350122 | Universal | A | Black |
| CTCS 1.5 F | 33339571 | 33350276 | Universal | B | Gray |
| CTCS 1.5 F | 33340234 | 33350334 | Universal | C | Green |
| CTCS 1.5 F | 33340235 | 33350335 | Universal | D | Blue |
| CTCS 1.5 M | 33340243 | 33350115 | Panel | A | Black |
| CTCS 1.5 M | 33340244 | 33350117 | Panel | B | Gray |
| CTCS 1.5 M | 33340246 | 33350119 | Panel | C | Green |
| CTCS 1.5 M | 33340247 | 33350121 | Panel | D | Blue |

ACCESSORY PART NUMBERS

See **Accessory Section / group D** on page 48

CTCS XP 1.5/2.8 15W

SEALED CONNECTION SYSTEM



APPLICATION

Inline or device
Chassis, engine compartment or on-engine

FEATURES

| | |
|------------------|--|
| Material: | V0 or HB flammability |
| Female mounting: | Universal |
| Male mounting: | Panel |
| Cavity mix: | 1.5(9) / 2.8(6) |
| Cable range: | 1.5: 0.5-1.0mm ² 2.8: 0.5-2.5mm ² |

PERFORMANCE

| | |
|--------------------------|--------------------|
| Temperature range: | -40 to +140°C |
| Vibration (Sine/Random): | 30.6G / 18Grms |
| Sealing IP (IEC/ISO): | 67, 69 / 6K7, 6K9K |
| Terminal retention: | F>60N/10s |

CONNECTOR PART NUMBERS

| Description | V0 material part number | HB material part number | Mounting type | Index | Color |
|----------------|-------------------------|-------------------------|---------------|-------|-------|
| CTCS 1.5/2.8 F | 33344005 | 33347873 | Universal | A | Black |
| CTCS 1.5/2.8 F | 33344006 | 33349153 | Universal | B | Gray |
| CTCS 1.5/2.8 F | 33344007 | 33349154 | Universal | C | Green |
| CTCS 1.5/2.8 F | 33348730 | 33349669 | Universal | D | Blue |
| CTCS 1.5/2.8 M | 33343701 | 33349151 | Panel | A | Black |
| CTCS 1.5/2.8 M | 33343703 | 33347894 | Panel | B | Gray |
| CTCS 1.5/2.8 M | 33343715 | 33347870 | Panel | C | Green |
| CTCS 1.5/2.8 M | 33348727 | 33349152 | Panel | D | Blue |
| CTCS 1.5/2.8 M | 35309257 | 35309262 | Strap/Clip | A | Black |
| CTCS 1.5/2.8 M | 35309258 | 35309263 | Strap/Clip | B | Gray |
| CTCS 1.5/2.8 M | 35309259 | 35309264 | Strap/Clip | C | Green |
| CTCS 1.5/2.8 M | 35309260 | 35309265 | Strap/Clip | D | Blue |

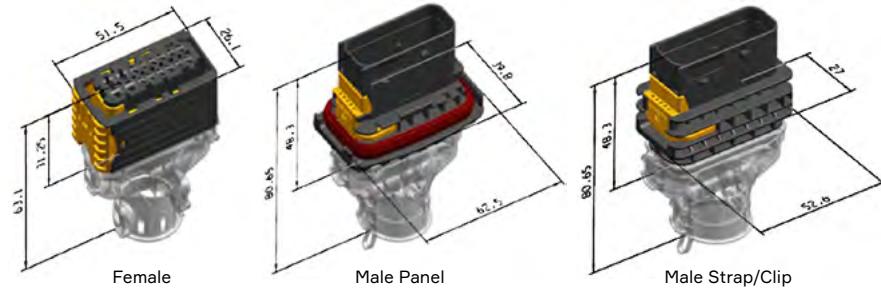
ACCESSORY PART NUMBERS

See **Accessory Section / group E** on page 48

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To verify product information, please contact an Aptiv representative.

CTCS XP 1.5/2.8 16W

SEALED CONNECTION SYSTEM



APPLICATION

| | |
|--|--|
| Inline or device | |
| Chassis, engine compartment or on-engine | |

FEATURES

| | |
|------------------|--|
| Material: | V0 or HB flammability |
| Female mounting: | Universal |
| Male mounting: | Panel or Strap/Clip |
| Cavity mix: | 1.5(12) / 2.8(4) |
| Cable range: | 1.5: 0.5-1.0mm ² 2.8: 0.5-2.5mm ² |

PERFORMANCE

| | |
|--------------------------|--------------------|
| Temperature range: | -40 to +140°C |
| Vibration (Sine/Random): | 30.6G / 18Grms |
| Sealing IP (IEC/ISO): | 67, 69 / 6K7, 6K9K |
| Terminal retention: | F>60N/10s |

CONNECTOR PART NUMBERS

| Description | V0 material part number | HB material part number | Mounting type | Index | Color |
|----------------|-------------------------|-------------------------|---------------|-------|-------|
| CTCS 1.5/2.8 F | 33285172 | 33347875 | Universal | A | Black |
| CTCS 1.5/2.8 F | 33342239 | 33349150 | Universal | B | Gray |
| CTCS 1.5/2.8 F | 33342249 | 33349606 | Universal | C | Green |
| CTCS 1.5/2.8 F | 33342262 | 33349607 | Universal | D | Blue |
| CTCS 1.5/2.8 M | 33285171 | 33347859 | Panel | A | Black |
| CTCS 1.5/2.8 M | 33342231 | 33349698 | Panel | B | Gray |
| CTCS 1.5/2.8 M | 33342238 | 33349702 | Panel | C | Green |
| CTCS 1.5/2.8 M | 33342241 | 33349145 | Panel | D | Blue |
| CTCS 1.5/2.8 M | 33342243 | 33347860 | Strap/Clip | A | Black |
| CTCS 1.5/2.8 M | 33342248 | 33349147 | Strap/Clip | B | Gray |
| CTCS 1.5/2.8 M | 33342251 | 33349148 | Strap/Clip | C | Green |
| CTCS 1.5/2.8 M | 33342236 | 33349149 | Strap/Clip | D | Blue |

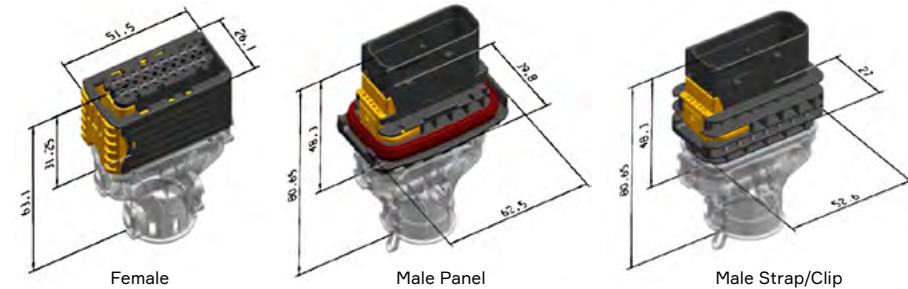
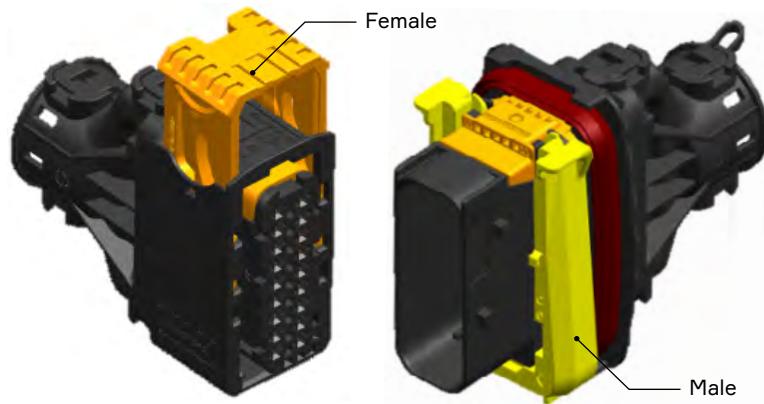
ACCESSORY PART NUMBERS

See **Accessory Section / group E** on page 48

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CTCS XP 1.5 18W

SEALED CONNECTION SYSTEM



APPLICATION

| | |
|--|--|
| Inline or device | |
| Chassis, engine compartment or on-engine | |

FEATURES

| | |
|------------------|-----------------------------|
| Material: | V0 or HB flammability |
| Female mounting: | Universal |
| Male mounting: | Panel or Strap/Clip |
| Cable range: | 1.5: 0.5-1.0mm ² |

PERFORMANCE

| | |
|--------------------------|--------------------|
| Temperature range: | -40 to +140°C |
| Vibration (Sine/Random): | 30.6G / 18Grms |
| Sealing IP (IEC/ISO): | 67, 69 / 6K7, 6K9K |
| Terminal retention: | F>60N/10s |

CONNECTOR PART NUMBERS

| Description | V0 material part number | HB material part number | Mounting type | Index | Color |
|-------------|-------------------------|-------------------------|---------------|-------|-------|
| CTCS 1.5 F | 33342277 | 33347876 | Universal | A | Black |
| CTCS 1.5 F | 33342279 | 33347893 | Universal | B | Gray |
| CTCS 1.5 F | 33342280 | 33348731 | Universal | C | Green |
| CTCS 1.5 F | 33342281 | 33348732 | Universal | D | Blue |
| CTCS 1.5 M | 33342293 | 33347872 | Panel | A | Black |
| CTCS 1.5 M | 33342294 | 33349684 | Panel | B | Gray |
| CTCS 1.5 M | 33342295 | 33349696 | Panel | C | Green |
| CTCS 1.5 M | 33342300 | 33349700 | Panel | D | Blue |
| CTCS 1.5 M | 33342234 | 33347874 | Strap/Clip | A | Black |
| CTCS 1.5 M | 33342245 | 33349707 | Strap/Clip | B | Gray |
| CTCS 1.5 M | 33342250 | 33349711 | Strap/Clip | C | Green |
| CTCS 1.5 M | 33342261 | 33349712 | Strap/Clip | D | Blue |

ACCESSORY PART NUMBERS

See **Accessory Section / group E** on page 48

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ACCESSORIES

ACCESSORY PART NUMBERS – GROUP A

| Accessory | V0 material part number | HB material part number | Orientation | Size | Color | Required or optional |
|---------------------------|-------------------------|-------------------------|-------------|------|--------|----------------------|
| Back shell | 33248838 | 33344598 | 180° | 8.5 | Black | O |
| Back shell | 33306181 | 33344597 | 90° | 8.5 | Black | O |
| Fixing slide | 33329561 | 33344600 | - | 3.5 | Gray | O |
| Fixing slide | 33329560 | 33344602 | - | 3.0 | Yellow | O |
| Fixing slide | 33329558 | 33344019 | - | 2.5 | Red | O |
| Protection cap for female | 33312671 | 33387232 | - | - | Black | O |
| Protection cap for male | 33312674 | 33387247 | - | - | Black | O |

ACCESSORY PART NUMBERS – GROUP B

| Accessory | V0 material part number | HB material part number | Orientation | Size | Color | Required or optional |
|---------------------------|-------------------------|-------------------------|-------------|-------------------|--------|----------------------|
| Back shell | 33309876 | 33347494 | 180° | 7.5 | Black | O |
| Back shell | 33309876 | 33347494 | 90° | 7.5 | Black | O |
| Back shell | 33309880 | 33347502 | 180° | 8.5 | Black | O |
| Back shell | 33309877 | 33347498 | 90° | 8.5 | Black | O |
| Back shell | 33309879 | 33347505 | 180° | 10 | Black | O |
| Back shell | 33309878 | 33346482 | 90° | 10 | Black | O |
| Back shell | 33309874 | 33347322 | 180° | Universal | Black | O |
| Back shell | 33309875 | 33347325 | 90° | Universal | Black | O |
| Back shell | 33309881 | 33347517 | 180° | 4/7 Hose | Black | O |
| Back shell | 33309873 | 33347506 | 90° | 4/7 Hose | Black | O |
| Back shell | 33309887 | 33347525 | 180° | 4/7 Cable 5.2-6.5 | Black | O |
| Back shell | 33309885 | 33347520 | 90° | 4/7 Cable 5.2-6.5 | Black | O |
| Back shell | 33309888 | 33347531 | 180° | 4/7 Cable 6.0-9.5 | Black | O |
| Back shell | 33309886 | 33347529 | 90° | 4/7 Cable 6.0-9.5 | Black | O |
| Fixing slide | 33308603 | 33347321 | - | 3.5 | Gray | O |
| Fixing slide | 33308602 | 33347319 | - | 3.0 | Yellow | O |
| Fixing slide | 33308600 | 33347318 | - | 2.5 | Red | O |
| Protection cap for female | 33308723 | 33348556 | - | - | Black | O |
| Protection cap for male | 33387248 | 33387249 | - | - | Black | O |

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ACCESSORIES

ACCESSORY PART NUMBERS – GROUP C

| Accessory | V0 material part number | HB material part number | Orientation | Size | Color | Required or optional |
|---------------------------|-------------------------|-------------------------|-------------|------|--------|----------------------|
| Back shell | 33283430 | 33344881 | 180° | 13 | Black | O |
| Back shell | 33341421 | 33344882 | 90° | 13 | Black | O |
| Fixing slide | 33341423 | 33344871 | - | 3.5 | Gray | O |
| Fixing slide | 33341422 | 33344870 | - | 3.0 | Yellow | O |
| Fixing slide | 33282490 | 33344869 | - | 2.5 | Red | O |
| Protection cap for female | 33387226 | 33387227 | - | - | Black | O |
| Protection cap for male | 33387223 | 33387250 | - | - | Black | O |

ACCESSORY PART NUMBERS – GROUP D

| Accessory | V0 material part number | HB material part number | Orientation | Size | Color | Required or optional |
|---------------------------|-------------------------|-------------------------|-------------|------|---------|----------------------|
| Back shell | 33339906 | 33349715 | 180° | 13 | Black | O |
| Back shell | 33342240 | 33349716 | 90° | 13 | Black | O |
| Fixing slide | 33339588 | 33350046 | - | 3.0 | Yellow | O |
| Fixing slide | 33339587 | 33350042 | - | 2.5 | Red | O |
| Fixing slide | 33339586 | 33350096 | - | 1.5 | Gray | O |
| Fixing slide | 33342242 | 33350093 | - | 1.0 | Natural | O |
| Protection cap for female | 33387222 | 33387224 | - | - | Black | O |
| Protection cap for male | 33387225 | 33387251 | - | - | Black | O |

ACCESSORY PART NUMBERS – GROUP E

| Accessory | V0 material part number | HB material part number | Orientation | Size | Color | Required or optional |
|---------------------------|-------------------------|-------------------------|-------------|------|--------|----------------------|
| Back shell | 33283431 | 33348058 | 180° | 17 | Black | O |
| Back shell | 33342229 | 33348055 | 90° | 17 | Black | O |
| Fixing slide | 33341424 | 33348136 | - | 3.5 | Gray | O |
| Fixing slide | 33325396 | 33348135 | - | 3.0 | Yellow | O |
| Fixing slide | 33283296 | 33348133 | - | 2.5 | Red | O |
| Fixing slide | 33341425 | 33348137 | - | 1.5 | Gray | O |
| Protection cap for female | 33387217 | 33387220 | - | - | Black | O |
| Protection cap for male | 33387253 | 33387252 | - | - | Black | O |

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ACCESSORIES

ACCESSORY PART NUMBERS – GROUP F

| Accessory | V0 material part number | HB material part number | Orientation | Size | Color | Required or optional |
|-------------------------|-------------------------|-------------------------|-------------|------|--------|----------------------|
| Female back shell/lever | 33276641 | 33106893 | 90° | - | Black | R |
| Male back shell | 33276607 | 33241970 | 90° | - | Black | O |
| Fixing slide | - | 33165028 | - | 3.5 | Brown | O |
| Fixing slide | - | 33165027 | - | 3.0 | Red | O |
| Fixing slide | - | 33165026 | - | 2.5 | Yellow | O |

ACCESSORY PART NUMBERS – GROUP G

| Accessory | V0 material part number | HB material part number | Orientation | Size | Color | Required or optional |
|-------------------------|-------------------------|-------------------------|-------------|------|--------|----------------------|
| Female back shell/lever | 33284004 | 33207232 | 90° | - | Black | R |
| Male back shell | 33284528 | 33206631 | 90° | - | Black | O |
| Fixing slide | - | 33207032 | - | 2.5 | Red | O |
| Fixing slide | - | 33239665 | - | 3.0 | Yellow | O |

ACCESSORY PART NUMBERS – GROUP H

| Accessory | V0 material part number | HB material part number | Orientation | Size | Color | Required or optional |
|-------------------------|-------------------------|-------------------------|-------------|------|-------|----------------------|
| Female back shell/lever | 33273779 | 33111591 | 90° | - | Black | R |
| Male back shell | 33273791 | 33204328 | 90° | - | Black | O |
| Fixing slide | - | 33204326 | - | - | Red | O |
| Pass-thru bracket | - | 33204327 | - | - | Black | O |

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