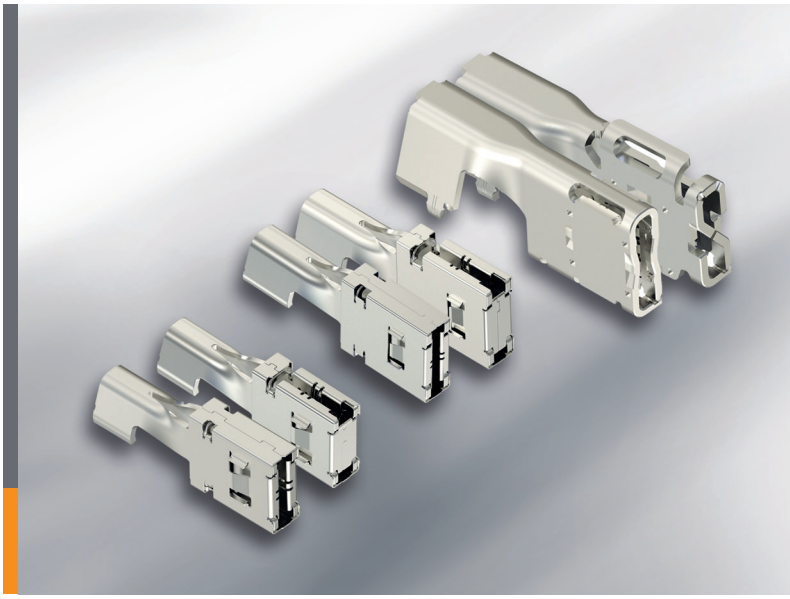
High-Voltage
Automotive Interconnection

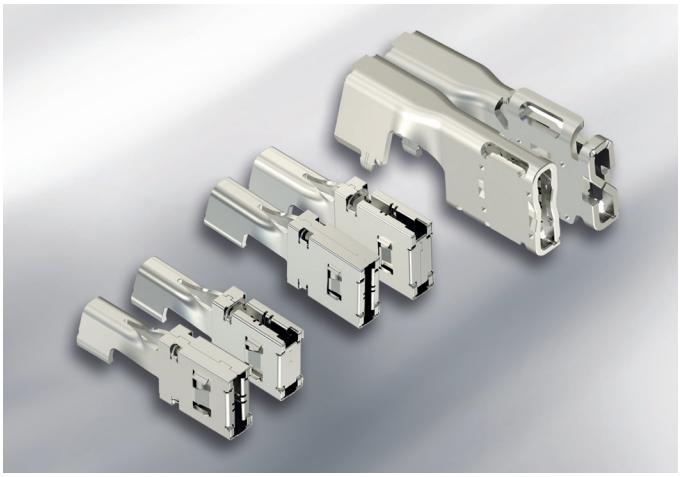
PCON
High-Power
Terminals



PCON High-Power Terminals

PCON high-power terminals are specifically designed to support the increased connectivity requirements in high-voltage interconnection systems of hybrid and all-electric vehicles.

PCON terminals are highly suited to high-voltage interconnection systems for hybrid and electric vehicles powertrain and auxiliary applications.



The new line of terminals, PCON 12, PCON 18 and PCON 21, have a common body design optimized for maximum vibration resistance while minimizing mating forces. Each is available with 90° and 180° mating directions and accommodates wire sizes ranging from 5 mm^2 to 95 mm^2 supporting continuous currents up to 400 Amps.

In addition, the PCON terminals are designed to accept touch-safe protection features integrated into the tab housing according to IEC 60529 IP2XB and UL-finger standards for EV powertrain applications therefore enabling safe and easy assembly and maintenance.

Product highlights

- Suitable for connector voltage levels up to 1,000 VDC
- Wire range from 5 mm^2 to 95 mm^2
- Continuous current capability up to 400 A
- Mating directions 90° and 180°
- Multiple contact points up to 36
- Maximum contact normal force approx. 3.5 N
- Vibration levels USCAR V1 / LV214

Typical applications

High-voltage interconnection systems for:

- Hybrid vehicles
- All-electric and fuel-cell vehicles

For more information visit our websites

Hybrid & Electric Mobility Solutions

te.com/hems

Next-Generation Mobility
High-Voltage Connectivity Solutions

te.com/next-gen-mobility

Connectivity Solutions - From the Charging Inlet through the Battery to the E-Motor

te.com/electrifying-a-movement

Technical Features

Mating Direction
90° / 180°

Wire Range
5 to 16 mm²

Current Range at 80° C
(Derating Factor of 20%)
Up to 120 A

Contact Normal Force
Approx. 3.3 N

Spring Plating
Ag / Ni

Body Plating
Ag / Ni

Crimping / Welding
Crimping

Terminal Style
Receptacle

Tab Size
(without Finger Protection / with)
10 x 1.2 mm / 12 x 1.2 mm

Voltage Range (Connector System)
up to 1.000 V

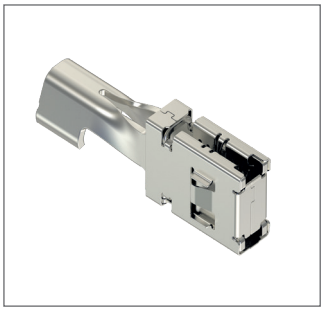
Operation Temperature
150° C

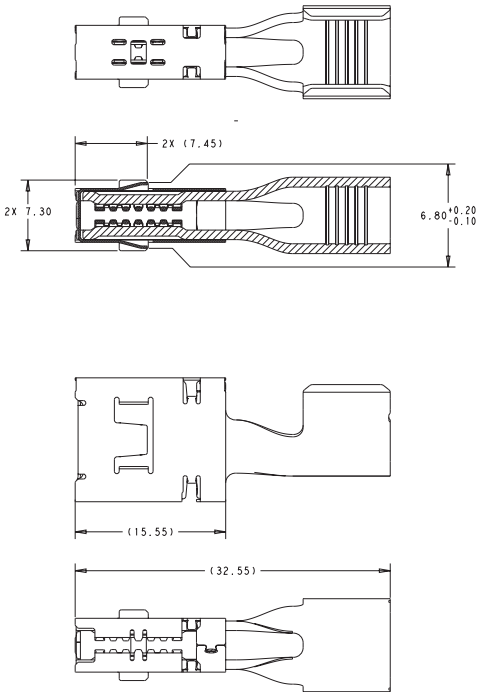
Vibration Level
USCAR V1

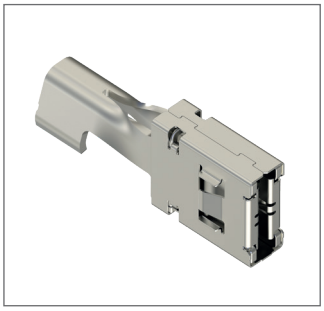
Product Specification
108-32671

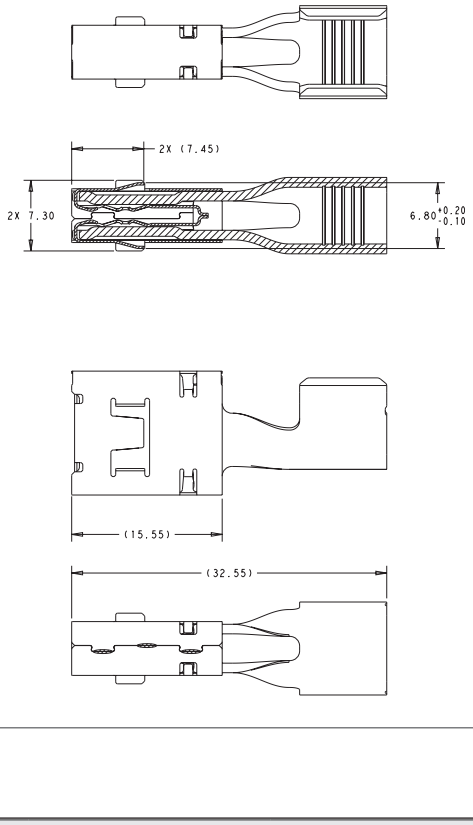
Application Specification
114-162014

PCON 12 Terminals









Ordering Information PCON 12 Terminals

Product Name	Product Category	Orientation	Wire Size mm²	Part Number
PCON 12	Terminals	90°	5 – 8 mm²	1-2840573-1
			10 – 16 mm²	1-2840573-2
		180°	5 – 8 mm²	1-2840575-1
			10 – 16 mm²	1-2840575-2

Technical Features

Mating Direction
90° / 180°

Wire Range
12 to 35 mm²

Current Range at 80° C
(Derating Factor of 20%)
Up to 180 A

Contact Normal Force
Approx. 3.3 N

Spring Plating
Ag / Ni

Body Plating
Ag / Ni

Crimping / Welding
Crimping

Terminal Style
Receptacle

Tab Size
(without Finger Protection / with)
15 x 1.8 mm / 18 x 1.8 mm

Voltage Range (Connector System)
up to 1.000 V

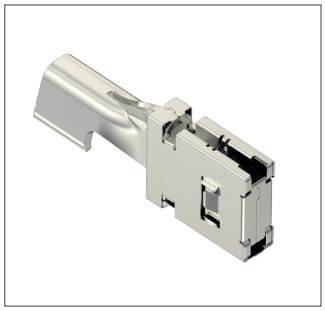
Operation Temperature
150° C

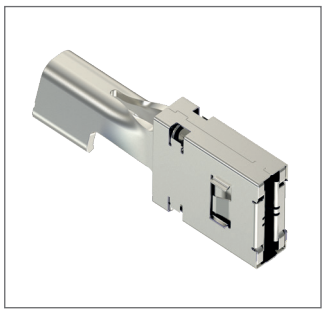
Vibration Level
USCAR V1

Product Specification
108-32683

Application Specification
114-162015

PCON 18 Terminals





Ordering Information PCON 18 Terminals

Product Name	Product Category	Orientation	Wire Size	Part Number
PCON 18	Terminals	90°	25 – 50 mm²	1-2840578-1
			70 – 95 mm²	1-2840578-2
		180°	25 – 50 mm²	1-2840580-1
			70 – 95 mm²	1-2840580-2

Technical Features

Mating Direction
90° / 180°

Wire Range
25 to 95 mm^2

Current Range at 80° C
(Derating Factor of 20%)
Up to 400 A

Contact Normal Force
Approx. 3.5 N

Spring Plating
Ag / Sn / Ni

Body Plating
Sn / Ni

Crimping / Welding
Crimping

Terminal Style
Receptacle

Tab Size
(without Finger Protection / with)
15.3 x 3 mm / 21 x 3 mm

Voltage Range (Connector System)
up to 1.000 V

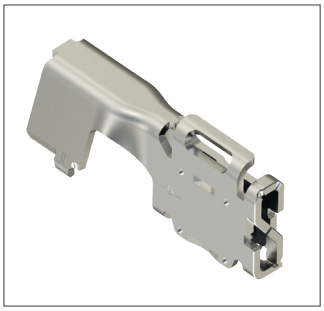
Operation Temperature
180° C

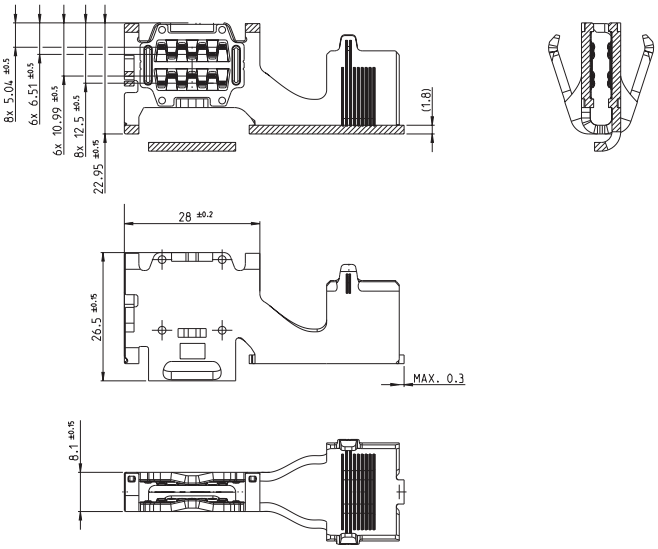
Vibration Level
USCAR V1 / LV214, SG2

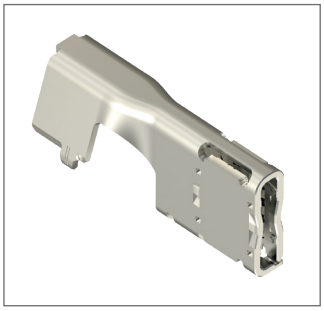
Product Specification
108-94638

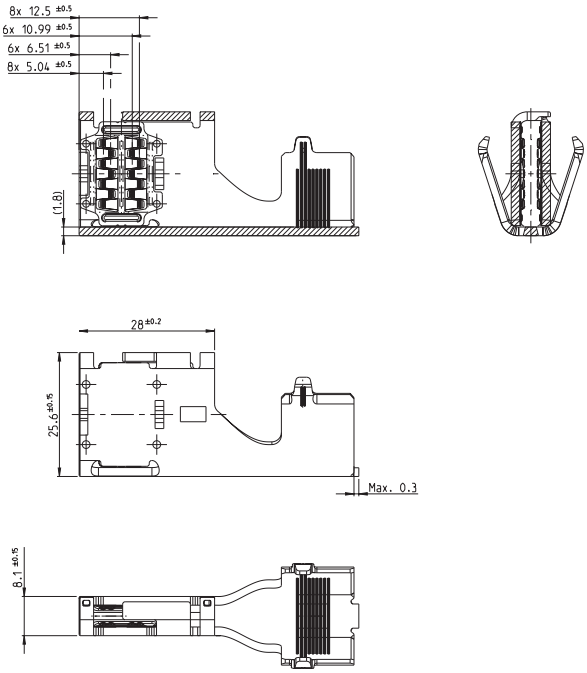
Application Specification
114-94511

PCON 21 Terminals









Ordering Information PCON 21 Terminals

Product Name	Product Category	Orientation	Wire Size	Part Number
PCON 21	Terminals	90°	25 – 50 mm^2	2317017-1
			70 – 95 mm^2	2317017-2
		180°	25 – 50 mm^2	2317680-1
			70 – 95 mm^2	2317680-2

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HYBRID & ELECTRIC MOBILITY SOLUTIONS

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https://www.te.com/usa-en/industries/hybrid-electric-mobility/product-index-hems.html

TE Connectivity Germany GmbH
Ampèrestrasse 12–14
64625 Bensheim | Germany

Product Information Center:
+49 (0)6251 133-1999

3-1773983-6 | Published 04-2020