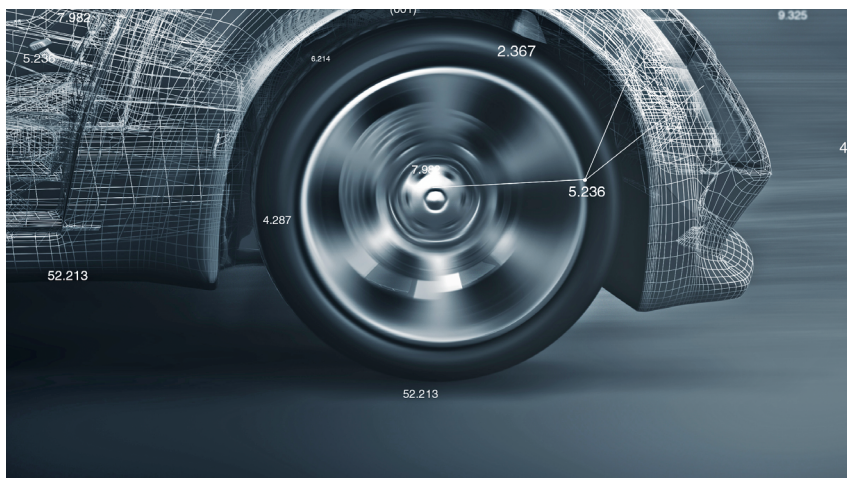
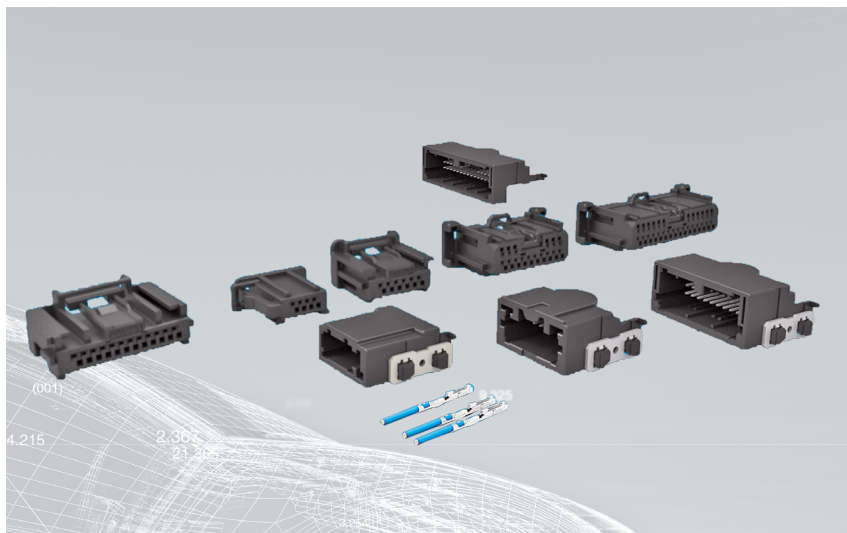
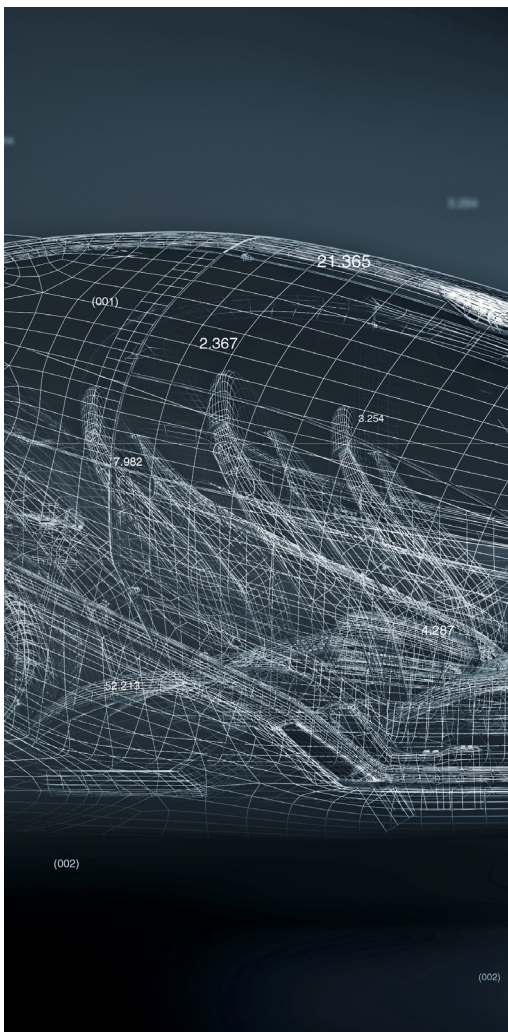


TE CONNECTIVITY (TE) GENERATION 50 PORTFOLIO

TE Connectivity's Generation 50 miniaturized connector system offers clean body and locking lance terminal designs incorporating an anti-stubbing terminal beam geometry, that helps eliminate the risk of terminal push out, and allows for excellent insertion and stress distribution. The Generation 50 connector system supports wire sizes of 0.13mm² to 0.35mm² as well as PCB retention forces of up to 80N, while meeting USCAR25 for lower pin count connectors.



BENEFITS

- Locking lance and clean body designs
- Anti-stubbing beam geometry preventing risk of terminal push-out during mating
- Multiple mating contact points
- Independent Secondary Lock (ISL)
- 'Kojiri' design for secure mating
- Robust anti-scooping features
- Header and pin damage protection
- Connector Position Assurance (CPA) optional
- PCB retention forces of 80N
- Damage resistant SMT design

APPLICATIONS

- Seat switches
- Power Steering
- Door handle modules
- Steering wheel controls
- Headlamps
- Cameras
- Sensors
- Unsealed control units

MECHANICAL

- Current capacity: 3A (90°C)
- Temperature class T2 (-40°C to +105°C) per USCAR-2
- Vibration class V1 per USCAR-2
- Sealing class S1 per USCAR-2
- Shall accept wire range from 7 strand 0.13 sqmm ultra-thin wall up to seven strand 0.35 sqmm thin wall (ISO 6722)
- Terminal insertion force equal to or less than 15N
- PCB retention force: 80N in perpendicular direction to mating
- Primary latch retention of 15N
- Primary and secondary latch retention of 35N after temp/humidity and 40N after moisture conditioning.
- 1.8 mm centerline spacing

ELECTRICAL

- Satisfy EWCAP (USCAR-2 proposed) promoted voltage drop and dry circuit requirements of 25 milliohms max.
- IR > 100 MΩ at 500 VDC
- 0.13 sqmm – 2 amps single terminal free-air
- 0.35 sqmm – 5 amps single terminal free-air

MATERIALS

- Female terminal: Tin plated copper alloy
- Plug housings: 15% glass-filled PBT
- Header housings: PCT
- Header blades: Tin plated brass
- Header solder clips: Tin plated brass


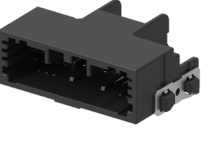

STANDARDS AND SPECIFICATIONS


- USCAR-21
- USCAR-2

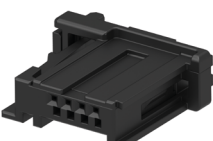
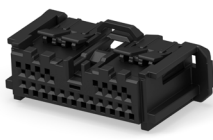
PRODUCT OFFERING

- Single row 2 circuit plugs - 4 polarization options
- Single row 4 circuit plugs - 4 polarization options
- Single row 6 circuit right angle surface mount PCB header - 4 polarization options
- Single row 6 circuit plug - 4 polarization options
- Dual row 16 circuit hybrid header - 4 polarization options
- Dual row 16 circuit hybrid plug - 4 polarization options
- Dual row 20 circuit right angle surface mount header - 4 polarization options
- Dual row 20 circuit plug - 4 polarization options
- Female terminal 2098583-2 and -4

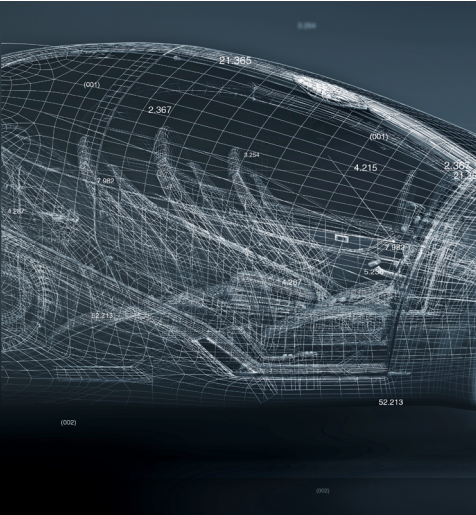
Generation 50 Connector System
Header and Plug Portfolio

90° Headers	Number of Positions	TE PN
	6	2272406-1
	16 Hybrid	2203881-1
	20	2272897-1

Terminals	Product	TE PN
	Gen 50 Terminal	2098583-2 / -4

Plugs	Number of Positions	TE PN
	2	2291329-1
	4	2272399-1
	6	2272405-1 2272405-5 (CPA)
	16 Hybrid	2334712-1 2334712-5 (CPA)
	20P	2334713-1

*) Please contact your account manager / customer service center for information on availability. If the product you are searching for is not listed, you can design your own product quick and easy with our configurator. <https://te-configurator.com>



FOR FURTHER INFORMATION PLEASE CONTACT US:

EUROPE

Germany

Product Information Center:

Phone: +800 0440-5100

Fax: +49 6251-133-1988

Email: ConnectedSales@te.com

UNITED STATES

United States - Harrisburg

Product Information Center:

Phone: +1 800 522-6752

Fax: +1 717-986-7575

Web: TE.com/customerservice

TE Connectivity

2901 Fulling Mill Road
Middletown, PA 17057 USA

www.te.com

© 2023 TE Connectivity | All rights reserved.

TE, TE Connectivity, and TE connectivity (logo) are trademarks owned or licensed by the TE Connectivity Ltd. family of companies. USCAR is a trademark. Other logos, product(s) and/or company names might be trademarks of their respective owners.

TE Connectivity's only obligations are those stated in TE's General Terms and Conditions of Business (www.te.com/aboutus/tandc.asp). TE expressly disclaims any implied warranty regarding the information contained herein, including, but not limited to, the implied warranties of merchantability or fitness for a particular purpose.

aut-gen-50-portfolio-us | 05-2023