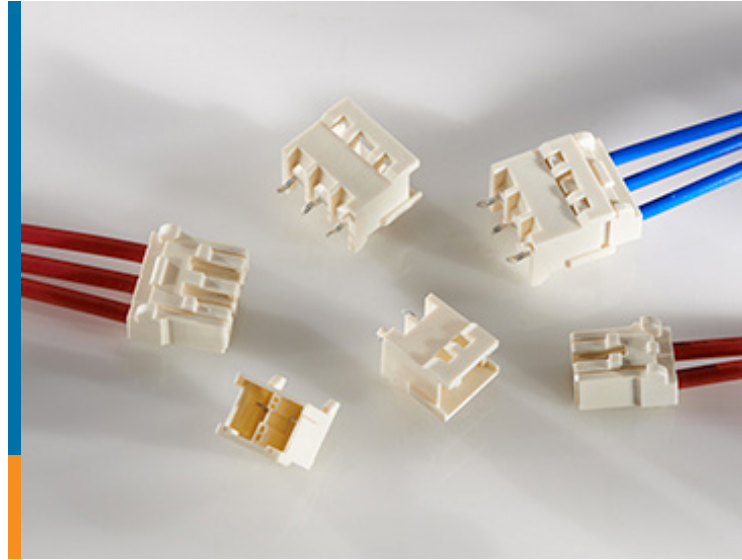


Introducing  
**6.0 mm**  
**GRACE INERTIA**  
**CONNECTOR**  
2 and 3 Positions, Wire-to-Board



# 6.0 mm GRACE INERTIA

## 2 and 3 Positions, Wire-to-Board

TE Connectivity (TE)'s new GRACE INERTIA connector brings its error-proofing, locking design to 10A wire-to-board connections in 2 and 3 position configurations in a space-saving 6.0 mm centerline pitch. GRACE INERTIA connectors are designed to prevent contact between receptacle contacts and header contacts when improper mating is attempted.

Additionally, the design employs inertia force that assists in mating the connector, preventing half mating. The 6.0 mm pitch delivers medium power connections in a more compact design.

### Electrical

- Voltage Rating: 300 VAC or VDC
- Current Rating: Up to 10 amps maximum

### Mechanical

- 2 and 3 positions, wire-to-board
- Centerline pitch: 6.0 mm (.236 in)
- Wire Gauge: 24-16 AWG [.22-1.25 mm<sup>2</sup>]

### Materials

- Housing: 6/6 nylon (glass filled) rated UL 94 V-0
- Contacts: Tin plated copper alloy
- Operating temperature: -40°C to 105°C

### Standards

- UL recognized, File No. E28476

### Specifications

- Product specification: 108-106193
- Application specification: 114-5292

### Applications

- Appliances
  - Air conditioners
  - Refrigerators
  - Washing machines
- Industrial equipment
  - Control cabinets
  - Industrial machinery
- HVAC systems

### Key Features

- 6.0 mm centerline pitch
- Mating protection
- Inertia lock design
- Positive latching
- Inner lock
- Lock on mechanism
- Keying function

### Benefits


- Compact pitch reduces overall connector size, saving valuable space on the printed circuit board
- Connector design prevents contact between receptacle contacts and header contacts prior to proper mating
- No half-mating. Design drives mating halves together when spring latch inertia is overcome by the assembler
- There is an audible “click” that signals when mating is complete, and plug and header are latched together

### Mid-range power wire-to-board connections

- Compact size saves space on PC board
- Design prevents contact between receptacle contacts and header contacts prior to proper mating
- Inertia locking mechanism drives housings together to help ensure full mating
- Creates an audible “click” that assures mating
- Latch securely locks mated halves together


### Product Offering

#### Housing

Product Image	Type	Style	Flammability	Part Number
	Plug Housing	2 position	UL 94 V-0	2-2232875-1
	Plug Housing	3 position	UL 94 V-0	3-2232875-1

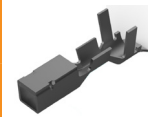
Note: Part numbers shown are for keying style A. Three other keying options are offered. See customer drawing for details.

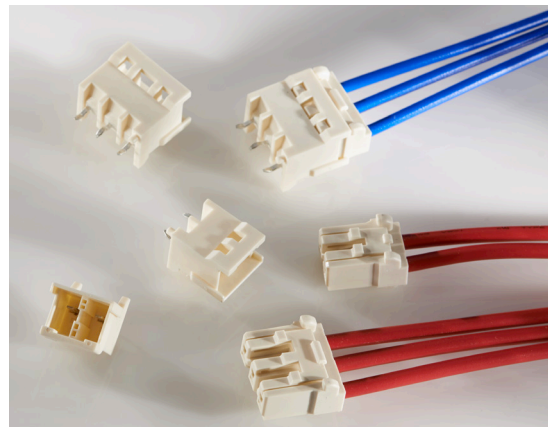
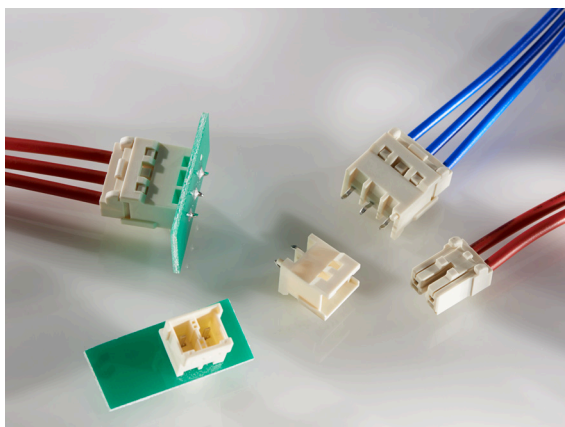
#### Header

Product Image	Type	Style	Flammability	Part Number
	Vertical Header	2 position	UL 94 V-0	2-2232876-1
	Vertical Header	3 position	UL 94 V-0	3-2232876-1

Note: Part numbers shown are for keying style A. Three other keying options are offered. See customer drawing for details.

#### Receptacle Contact

Product Image	Type	Wire Gauge	Part Number	Hand Tool	Applicator
	Receptacle	24-20 AWG [.22 -.53 mm <sup>2</sup> ]	1376348-1	1762773-1	1463049-2
	Receptacle	20-16 AWG [.51 -1.25 mm <sup>2</sup> ]	1376347-1	1729064-1	1366703-2



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