

6.0 MM GRACE INERTIA CONNECTOR

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 help 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, help preventing half mating. The 6.0 mm pitch helps deliver 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 mm²]

SPECIFICATIONS

- Product specification: [108-106193](#)
- Application specification: [114-5292](#)

MATERIALS

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

KEY FEATURES

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

STANDARDS

- UL recognized, File No. E28476

BENEFITS

- Compact pitch reduces overall connector size, saving valuable space on the printed circuit board
- Connector design helps prevent 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

APPLICATIONS



Air Conditioners



Refrigerators



Washing Machines



Control Cabinets



Industrial Machinery



HVAC Systems

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MID-RANGE POWER WIRE-TO-BOARD CONNECTIONS

- Compact size saves space on printed circuit board (PCB)
- Design helps prevent 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-O	2-2232875-1
	Plug Housing	3 position	UL 94 V-O	3-2232875-1

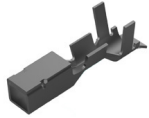
Note: Part numbers shown are for keying style A. Three other keying options are offered. See customer drawing for details.

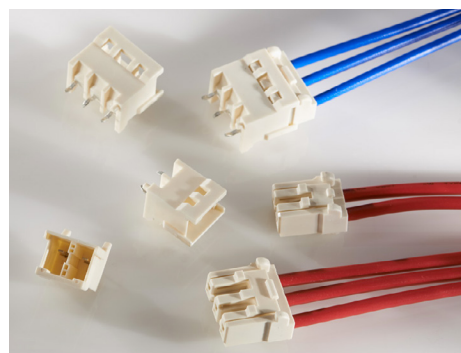
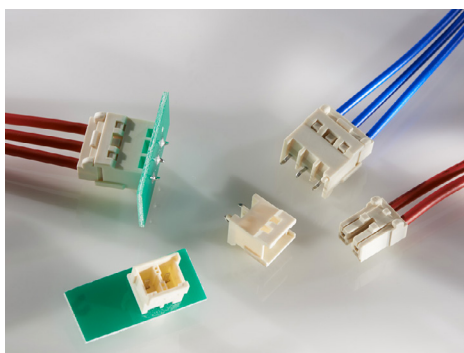
HEADER

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

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

HEADER

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



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CONNECT WITH US

We make it easy to connect with our experts and are ready to provide all the support you need.

Visit te.com/support to chat with a Product Information Specialist.

te.com/grace-inertia-connectors

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09/25