

GRACE INERTIA MULTI-LOAD CONNECTOR

WIRE-TO-BOARD SOLUTIONS SUPPORTING INTEGRATED DESIGN OF MULTI FUNCTIONAL PCB SYSTEMS

TE Connectivity's (TE) new GRACE INERTIA multi-load connector provides design flexibility for printed circuit board (PCB) manufacturers requiring multi-functionality in wire-to-board solutions. The header can accept multiple plugs, simplifying sourcing and assembly, while taking less PCB space. It features a 14.1mm low mating height, allowing the PCB to fit into space-limited designs. To help improve assembly efficiency, the plug includes a pre-mounted terminal position assurance (TPA) device, poka-yoke handling with keying & color options and interchangeable plug system**. This product is suitable for board applications ranging from home appliances to commercial building systems.



ELECTRICAL

- Max Rated Current: 3A
- Max Rated Voltage: 250V AC

MECHANICAL

- Centerline: 3mm
- Header Positions: 14/26/28
- Plug Positions: 2/4/6
- Wire Size: 28-22 AWG
- Max Potting Height: 4mm

MATERIALS

- Operating Temperature (°C):
-40 to +105
- Housing Flammability Ratings:
UL 94 V-0 and GWT*
- Contact: Copper

KEY FEATURES

- Multi-load connector design helps save PCB space
- Pre-mounted terminal position assurance (TPA) ensures terminals are fully seated, helping to improve assembly efficiency
- Poka-yoke with keying and color options helps reduce connection errors
- Interchangeable plug system** provides design flexibility
- Customized configurations can be extended to meet customer specific requirements

ADDITIONAL INFORMATION

- Product Specification: [108-106638](#)
- Application Specification: [114-106638](#)
- [UL E28476](#)
- [Product Page](#)

APPLICATIONS



Automation
and Control



Heating, Ventilation,
and Air Conditioning
(HVAC) Equipment



Intelligent
Building



Appliances

*GWT refers to glow wire testing. For more information on glow wire testing please review the white paper [Glow Wire Testing for the Appliance Industry](#) or visit the [Glow Wire Capable Connectors product page](#)

**Interchangeable plug system: 6 position can be substituted with a combination of 2 and 4 position plugs (for example: 2389270-1 can be replaced with 2389261-1 and 2389268-1)

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PART NUMBER

Header Assembly		Plug Assembly		
Position	Part Number	Position	Color	Part Number
14P	2374433-1	2	Blue	2389261-4
		4	Red	2389268-3
		6	Natural	2389270-1
		2	Red	2389261-3
26P	2374434-1	2	Blue	2389261-4
		4	Red	2389268-3
		6	Natural	2389270-1
		2	Red	2389261-3
		4	Blue	2389268-4
		6	Black	2389270-2
28P	2374437-1	2	Blue	2389261-4
		4	Red	2389268-3
		6	Natural	2389270-1
		2	Red	2389261-3
		4	Blue	2389268-4
		6	Black	2389270-2
		4	Yellow	2389268-5
	2374437-2	6	Red	2389270-3
		6	Natural	2389270-1
		6	Blue	2389270-4
	2374437-3	6	Black	2389270-2
		4	Yellow	2389268-5
		6	Red	2389270-3
		6	Natural	2389270-1
		6	Blue	2389270-4
		6	Green	2389270-6
		4	Yellow	2389268-5

CONTACT

Part Number	Part Description	OCEAN Applicator No.
2401417-1	Receptacle Contact 26-22AWG	2404831-1
2415838-1	Receptacle Contact 28-26AWG	4151282-1

APPLICATOR

TPA Rework Tooling Number	2P: 2481577-1 , 4P: 2481577-2 , 6P: 2481577-3
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