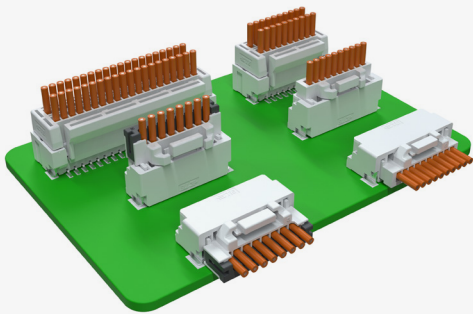


1.25 & 1.5 SIGNAL GRACE INERTIA CONNECTORS

PROVIDE RELIABLE & COMPACT SMT AUTOMATION SOLUTION

TE's 1.25 & 1.5 signal GRACE INERTIA connectors are designed for reliable SMT assembly of miniaturized PCB designs. As well as the whole GRACE INERTIA connectors family, they feature the standard inertia locking mechanism for increased reliability. These connectors help to save PCB space with miniature 1.25 and 1.5 mm pitch, as well as low profile right-angle header,(5mm). The SMT header supports automated pick-and-place processes, helping to increase efficiency. Also, this small pitch product provides solder peg to make strong connection with PCB. Plus, poka-yoke design with keying and color helps to reduce assembly error. Multiple configurations including vertical and R/A header, single and dual row, optional [TPA](#) provide design versatility for a wide range of applications, such as home appliance, HVAC, and building devices.



ELECTRICAL

- Rated Current: 2.5A Max
- Rated Voltage : 50V AC DC

MECHANICAL

- Centerline (mm): 1.5/1.25
- Number of Positions: 40 Max
- Wire Size: 24-30 AWG

MATERIALS

- Operating Temperature (°C): -40 to +105
- Housing Flammability Ratings: UL 94 V-0 and GWT*
- Contact: Copper Alloy
- UL E28476
[VDE 40048197**](#)

STANDARDS & SPECIFICATIONS

- Product Specification: [108-106451](#)
- Application Specification: [114-106497](#)

LEARN MORE

- [Landing Page](#)

KEY FEATURES

- Miniature size connector is suitable for compact solution
- Surface mount technology (SMT) supports automated pick- and-place processes for efficient automation assembly
- Unique design of inertial locking mechanism helps to prevent half mating and to provide high locking force
- Poka-yoke with keying and color options helps reduce connection errors
- Solder peg provides high retention force onto the PCB
- Vertical and Right angle (R/A) headers are available,(R/A provide 5mm low profile design)
- Single and dual row is available
- Optional [TPA](#) and potted header

APPLICATIONS



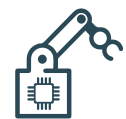
Major Home Appliances



Small Home Appliances



Machinery



Lighting



HVAC Equipment



Lawn and Garden



Intelligent Building



Water Heater

*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](#)

** VDE 40048197 is available for signal GRACE INERTIA 1.5 single row

1.25 & 1.5 SIGNAL GRACE INERTIA CONNECTOR

WIRE TO BOARD

Type	Pitch	Pos	Key	Color	Header		Plug
					Right Angle	Vertical	
Single Row	1.25	2	A	NATURAL	2360538-2	2360540-2	2371404-2
		3	A	NATURAL	2360538-3	2360540-3	2371404-3
		4	A	NATURAL	2360538-4	2360540-4	2371404-4
		5	A	NATURAL	2360538-5	2360540-5	2371404-5
		6	A	NATURAL	2360538-6	2360540-6	2371404-6
		7	A	NATURAL	2360538-7	2360540-7	2371404-7
		8	A	NATURAL	2360538-8	2360540-8	2371404-8
		9	A	NATURAL	2360538-9	2360540-9	2371404-9
		10	A	NATURAL	1-2360538-0	1-2360540-0	1-2371404-0
		11	A	NATURAL	1-2360538-1	1-2360540-1	1-2371404-1
		12	A	NATURAL	1-2360538-2	1-2360540-2	1-2371404-2
		13	A	NATURAL	1-2360538-3	1-2360540-3	1-2371404-3
		14	A	NATURAL	1-2360538-4	1-2360540-4	1-2371404-4
		15	A	NATURAL	1-2360538-5	1-2360540-5	1-2371404-5
		16	A	NATURAL	1-2360538-6	1-2360540-6	1-2371404-6
		17	A	NATURAL	1-2360538-7	1-2360540-7	1-2371404-7
		18	A	NATURAL	1-2360538-8	1-2360540-8	1-2371404-8
		2	B	BLACK	2-2360538-2	2-2360540-2	2-2371404-2
		3	B	BLACK	2-2360538-3	2-2360540-3	2-2371404-3
		4	B	BLACK	2-2360538-4	2-2360540-4	2-2371404-4
		5	B	BLACK	2-2360538-5	2-2360540-5	2-2371404-5
		6	B	BLACK	2-2360538-6	2-2360540-6	2-2371404-6
		7	B	BLACK	2-2360538-7	2-2360540-7	2-2371404-7
		8	B	BLACK	2-2360538-8	2-2360540-8	2-2371404-8
		9	B	BLACK	2-2360538-9	2-2360540-9	2-2371404-9
		10	B	BLACK	3-2360538-0	3-2360540-0	3-2371404-0
		11	B	BLACK	3-2360538-1	3-2360540-1	3-2371404-1
		12	B	BLACK	3-2360538-2	3-2360540-2	3-2371404-2
		13	B	BLACK	3-2360538-3	3-2360540-3	3-2371404-3
		14	B	BLACK	3-2360538-4	3-2360540-4	3-2371404-4
		15	B	BLACK	3-2360538-5	3-2360540-5	3-2371404-5
		16	B	BLACK	3-2360538-6	3-2360540-6	3-2371404-6
		17	B	BLACK	3-2360538-7	3-2360540-7	3-2371404-7
		18	B	BLACK	3-2360538-8	3-2360540-8	3-2371404-8

1.25 & 1.5 SIGNAL GRACE INERTIA CONNECTOR

Type	Pitch	Pos	Key	Color	Header		Plug	
					Right Angle	Vertical		
Single Row	1.5	2	A	NATURAL	2360545-2	2360547-2	2382946-2	
		3	A	NATURAL	2360545-3	2360547-3	2382946-3	
		4	A	NATURAL	2360545-4	2360547-4	2382946-4	
		5	A	NATURAL	2360545-5	2360547-5	2382946-5	
		6	A	NATURAL	2360545-6	2360547-6	2382946-6	
		7	A	NATURAL	2360545-7	2360547-7	2382946-7	
		8	A	NATURAL	2360545-8	2360547-8	2382946-8	
		9	A	NATURAL	2360545-9	2360547-9	2382946-9	
		10	A	NATURAL	1-2360545-0	1-2360547-0	1-2382946-0	
		11	A	NATURAL	1-2360545-1	1-2360547-1	1-2382946-1	
		12	A	NATURAL	1-2360545-2	1-2360547-2	1-2382946-2	
		2	B	BLACK	2-2360545-2	2-2360547-2	2-2382946-2	
	3	B	BLACK	2-2360545-3	2-2360547-3	2-2382946-3		
	4	B	BLACK	2-2360545-4	2-2360547-4	2-2382946-4		
	5	B	BLACK	2-2360545-5	2-2360547-5	2-2382946-5		
	6	B	BLACK	2-2360545-6	2-2360547-6	2-2382946-6		
	7	B	BLACK	2-2360545-7	2-2360547-7	2-2382946-7		
	8	B	BLACK	2-2360545-8	2-2360547-8	2-2382946-8		
	9	B	BLACK	2-2360545-9	2-2360547-9	2-2382946-9		
	10	B	BLACK	3-2360545-0	3-2360547-0	3-2382946-0		
	11	B	BLACK	3-2360545-1	3-2360547-1	3-2382946-1		
	12	B	BLACK	3-2360545-2	3-2360547-2	3-2382946-2		
	Dual Row	1.25	20	A	NATURAL	/	2-2456589-0	2-2456588-0
			22	A	NATURAL	/	2-2456589-2	2-2456588-2
30			A	NATURAL	/	3-2456589-0	3-2456588-0	
40			A	NATURAL	/	4-2456589-0	4-2456588-0	
20			B	BLACK	/	6-2456589-0	6-2456588-0	
30			B	BLACK	/	7-2456589-0	7-2456588-0	
40			B	BLACK	/	8-2456589-0	8-2456588-0	

Colorful versions are available

1.25 & 1.5 SIGNAL GRACE INERTIA CONNECTOR



TPA			
Type	Color	Position	TPA Part No.
SGI 1.5 Single Row	NATURAL	2	2-2383410-2
		3	2-2383410-3
		4	2-2383410-4
		5	2-2383410-5
		6	2-2383410-6
		7	2-2383410-7
		8	2-2383410-8
		9	2-2383410-9
		10	2-2383410-0
		11	3-2383410-1
		12	3-2383410-2
		SGI 1.5 Single Row	BLACK
3	2383410-3		
4	2383410-4		
5	2383410-5		
6	2383410-6		
7	2383410-7		
8	2383410-8		
9	2383410-9		
10	1-2383410-0		
11	1-2383410-1		
12	1-2383410-2		

1.25 & 1.5 SIGNAL GRACE INERTIA CONNECTOR

CONTACT

Sub Group	Part Number	Description	Wire Range (AWG)	OCEAN Applicator
SGI1.25 Single Row	2454997-1	Receptacle Contact	26-30	2371584-2
SGI1.5 Single Row	2454997-4	Receptacle Contact	24-28	2384926-2
SGI1.25 Dual Row	2454997-1	Receptacle Contact	26-30	2371584-2

WIRE TO WIRE

Position	Row Number	Cap	Plug No.
10	Single	1-2428107-0	1-2371404-0
20	Dual	2-2428108-0	2-2456588-0

Description	Wire Range (AWG)	Part Number	OCEAN Applicator
Receptacle Contact	26-30	2454997-1	2371584-2
Tab Contact		2428106-1	

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