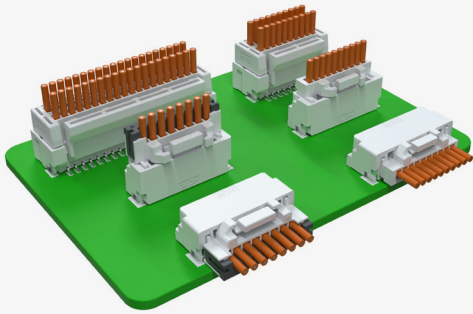




1.25 AND 1.5 SIGNAL GRACE INERTIA CONNECTORS

PROVIDE RELIABLE & COMPACT SMT AUTOMATION SOLUTION

TE Connectivity's (TE) 1.25 and 1.5 signal GRACE INERTIA connectors are designed for reliable surface mount technology (SMT) assembly of miniaturized PCB designs. They feature a standard inertia locking mechanism helping to prevent connector half-mating with audible confirmation. These connectors save PCB space with their miniature 1.25 and 1.5 mm pitch, along with a low-profile right-angle header (5 mm). The SMT header supports automated pick-and-place processes, helping to increase efficiency. Poka-yoke design with keying and color helps to reduce assembly errors. Multiple configurations including vertical and right angle (R/A) header, single and dual row, optional TPA provide design versatility for a wide range of applications, such as home appliance, HVAC, intelligent building and machinery.

ELECTRICAL

- Rated Current: 1.25mm: 2.2A Max
1.50mm: 2.5A Max
- Voltage Rating: 50 VAC/DC

MECHANICAL

- Centerline (mm): 1.5/1.25
- Number of Positions:
 - 1.25mm
2 through 18 positions single row
20/22/30/40 position for dual row
 - 1.50mm
2 through 12 for single row
- Wire Size: 1.25mm: 26 – 30 AWG
1.50mm: 24 – 28 AWG

MATERIALS

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

STANDARDS & SPECIFICATIONS

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

LEARN MORE

- [Product 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 inertia 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 to the PCB
- Vertical and right angle (R/A) headers are available
- Single and dual row is available
- Optional terminal position assurance (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](#)

GWT version is not currently available for 1.25 dual row connector

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

1.25 AND 1.5 SIGNAL GRACE INERTIA CONNECTORS

WIRE TO BOARD

Type	Pitch	Position	Key	Color	Header Part Number		Plug Part Number
					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 AND 1.5 SIGNAL GRACE INERTIA CONNECTORS

WIRE TO BOARD

Type	Pitch	Position	Key	Color	Header Part Number		Plug Part Number
					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

Colored versions are available

1.25 AND 1.5 SIGNAL GRACE INERTIA CONNECTORS

TPA

Type	Color	Position	TPA Part Number
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	2	2383410-2
		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

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

1.25 AND 1.5 SIGNAL GRACE INERTIA CONNECTORS

WIRE TO WIRE

Position	Row Number	Cap Part Number	Plug Part Number
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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