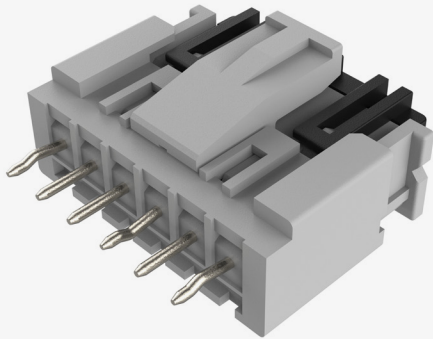




NEXT GENERATION ECONOMY POWER 2.5 CONNECTOR

MORE RELIABLE AND EASIER TO ASSEMBLE PCB SYSTEMS

Economy Power 2.5 (EP 2.5) wire-to-board connectors are now available with additional features to support efficient printed circuit board (PCB) manufacturing. The redesigned EP 2.5 header features an additional solder kink pin to better secure the header to the PCB before soldering – making the soldering process easier and more consistent. The 2.5mm pitch connectors also come with an optional header polarization peg to prevent misalignment on the PCB, as well as an optional terminal position assurance (TPA) device to secure contacts in the plug housing. Headers are available in either loose piece or strip form packaging to accommodate both manual and automated assembly processes.

ELECTRICAL

- Voltage rating: 250VAC
- Current rating: 4.2A max

MECHANICAL

- Pitch: 2.5mm (0.098")
- Positions: 2 to 8, single row
- Header configuration:
Fully shrouded, vertical
- Plug configuration:
Crimp socket terminals
- Wire range: 0.13 to 0.56mm²
(26-20AWG)

MATERIALS

- Housings: UL 94 V-0 rated
- Contacts: Copper alloy, tin plated
- Operating temperature: -55 to 105°C

KEY BENEFITS

- Housing locking latch helps ensure complete mating
- Optional polarization peg prevents header misalignment on the PCB
- Low insertion force (LIF) terminals available for more ergonomic assembly
- Anti-fretting contact lubricant provides more reliable connection
- Asymmetrical terminals prevent mis-mating
- Optional terminal position assurance device secures contacts in the plug housing
- Connectors can be packaged as either loose piece or on tape in strip form
- Loose piece headers feature three kink pins to provide a secure PCB connection during soldering (solder kink is easily added to strip form headers by bending pins during assembly)
- Available in flame resistant materials to meet IEC 60335-1 glow wire test (GWT*) and UL 94 V-0 standards

STANDARDS & SPECIFICATIONS

- UL Recognized (U.S. and Canada)
- Product specification: [108-2418](#)
- Application specification: [114-13315](#)

APPLICATIONS



Major Home
Appliances



Small Home
Appliances



Industrial
Machinery



Power
Tools

*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](#).

NEXT GENERATION ECONOMY POWER 2.5 CONNECTOR

PLUG HOUSINGS

Color	Position	Part Number
Natural	2P	2391828-2
	3P	2391828-3
	4P	2391828-4
	5P	2391828-5
	6P	2391828-6
	7P	2391828-7
	8P	2391828-8
Red	2P	2406060-2
	3P	2406060-3
	4P	2406060-4
	5P	2406060-5
	6P	2406060-6
	7P	2406060-7
	8P	2406060-8
Blue	2P	1-2406060-2
	3P	1-2406060-3
	4P	1-2406060-4
	5P	1-2406060-5
	6P	1-2406060-6
	7P	1-2406060-7
	8P	1-2406060-8
Black	2P	2-2406060-2
	3P	2-2406060-3
	4P	2-2406060-4
	5P	2-2406060-5
	6P	2-2406060-6
	7P	2-2406060-7
	8P	2-2406060-8
Yellow	2P	3-2406060-2
	3P	3-2406060-3
	4P	3-2406060-4
	5P	3-2406060-5
	6P	3-2406060-6
	7P	3-2406060-7
	8P	3-2406060-8
Green	2P	4-2406060-2
	3P	4-2406060-3
	4P	4-2406060-4
	5P	4-2406060-5
	6P	4-2406060-6
	7P	4-2406060-7
	8P	4-2406060-8

NEXT GENERATION ECONOMY POWER 2.5 CONNECTOR

PLUG HOUSINGS (Continued..)

Color	Position	Part Number
Ivory	2P	5-2406060-2
	3P	5-2406060-3
	4P	5-2406060-4
	5P	5-2406060-5
	6P	5-2406060-6
	7P	5-2406060-7
	8P	5-2406060-8

Housings are also available in multiple colors and in selectively loaded versions. To learn more, please contact your sales representative.

TERMINAL POSITION ASSURANCE (TPA)

Position	Part Number
2P	2391827-2
3P	2391827-3
4P	2391827-4
5P	2391827-5
6P	2391827-6
7P	2391827-7
8P	2391827-8

NEXT GENERATION ECONOMY POWER 2.5 CONNECTOR

HEADER

Package	Boss	Color	Position	Part Number	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8			
Taping	Without	Natural	2P	2391830-2	O	O									
			3P	2391830-3	O	O	O								
			4P	2391830-4	O	O	O	O							
			5P	2391830-5	O	O	O	O	O						
			6P	2391830-6	O	O	O	O	O	O					
			7P	2391830-7	O	O	O	O	O	O	O				
8P			2391830-8	O	O	O	O	O	O	O	O				
Loose piece			2P	2391831-2	O	O									
			3P	2391831-3	O	O	O								
			4P	2391831-4	O	O	O	O							
			5P	2391831-5	O	O	O	O	O						
			6P	2391831-6	O	O	O	O	O	O					
			7P	2391831-7	O	O	O	O	O	O	O	O			
Taping			With	8P	2391831-8	O	O	O	O	O	O	O	O	O	
	2P			2393677-2	O	O									
	3P			2393677-3	O	O	O								
	4P			2393677-4	O	O	O	O							
	5P			2393677-5	O	O	O	O	O						
	6P			2393677-6	O	O	O	O	O	O					
Loose piece	7P			2393677-7	O	O	O	O	O	O	O	O			
	8P			2393677-8	O	O	O	O	O	O	O	O	O	O	
	2P			2393678-2	O	O									
	3P			2393678-3	O	O	O								
	4P			2393678-4	O	O	O	O							
	5P			2393678-5	O	O	O	O	O						
Taping	With			Red	6P	2393678-6	O	O	O	O	O	O			
					7P	2393678-7	O	O	O	O	O	O	O	O	
			8P		2393678-8	O	O	O	O	O	O	O	O	O	O
		2P	2450451-2		O	O									
		3P	2450451-3		O	O	O								
		4P	2450451-4		O	O	O	O							
		5P	2450451-5		O	O	O	O	O						
		6P	2450451-6		O	O	O	O	O	O					
		Blue	7P	2450451-7	O	O	O	O	O	O	O	O	O		
8P			2450451-8	O	O	O	O	O	O	O	O	O	O		
2P			1-2450451-2	O	O										
3P			1-2450451-3	O	O	O									
4P			1-2450451-4	O	O	O	O								
5P			1-2450451-5	O	O	O	O	O							
Taping		Blue	6P	1-2450451-6	O	O	O	O	O	O					
			7P	1-2450451-7	O	O	O	O	O	O	O	O			
			8P	1-2450451-8	O	O	O	O	O	O	O	O	O	O	

Housings are also available in multiple colors and in selectively loaded versions. To learn more, please contact your sales representative.

NEXT GENERATION ECONOMY POWER 2.5 CONNECTOR

HEADER (Continued..)

Package	Boss	Color	Position	Part Number	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
Taping	With	Black	2P	2-2450451-2	O	O						
			3P	2-2450451-3	O	O	O					
			4P	2-2450451-4	O	O	O	O				
			5P	2-2450451-5	O	O	O	O	O			
			6P	2-2450451-6	O	O	O	O	O	O		
			7P	2-2450451-7	O	O	O	O	O	O	O	
			8P	2-2450451-8	O	O	O	O	O	O	O	O
		Yellow	2P	3-2450451-2	O	O						
			3P	3-2450451-3	O	O	O					
			4P	3-2450451-4	O	O	O	O				
			5P	3-2450451-5	O	O	O	O	O			
			6P	3-2450451-6	O	O	O	O	O	O		
			7P	3-2450451-7	O	O	O	O	O	O	O	
			8P	3-2450451-8	O	O	O	O	O	O	O	O
		Green	2P	4-2450451-2	O	O						
			3P	4-2450451-3	O	O	O					
			4P	4-2450451-4	O	O	O	O				
			5P	4-2450451-5	O	O	O	O	O			
			6P	4-2450451-6	O	O	O	O	O	O		
			7P	4-2450451-7	O	O	O	O	O	O	O	
			8P	4-2450451-8	O	O	O	O	O	O	O	O
		Ivory	2P	5-2450451-2	O	O						
			3P	5-2450451-3	O	O	O					
			4P	5-2450451-4	O	O	O	O				
			5P	5-2450451-5	O	O	O	O	O			
			6P	5-2450451-6	O	O	O	O	O	O		
			7P	5-2450451-7	O	O	O	O	O	O	O	
			8P	5-2450451-8	O	O	O	O	O	O	O	O
Loose piece	With	Red	2P	2464099-2	O	O						
			3P	2464099-3	O	O	O					
			4P	2464099-4	O	O	O	O				
			5P	2464099-5	O	O	O	O	O			
			6P	2464099-6	O	O	O	O	O	O		
			7P	2464099-7	O	O	O	O	O	O	O	
			8P	2464099-8	O	O	O	O	O	O	O	O
		Blue	2P	1-2464099-2	O	O						
			3P	1-2464099-3	O	O	O					
			4P	1-2464099-4	O	O	O	O				
			5P	1-2464099-5	O	O	O	O	O			
			6P	1-2464099-6	O	O	O	O	O	O		
			7P	1-2464099-7	O	O	O	O	O	O	O	
			8P	1-2464099-8	O	O	O	O	O	O	O	O

Housings are also available in multiple colors and in selectively loaded versions. To learn more, please contact your sales representative.

NEXT GENERATION ECONOMY POWER 2.5 CONNECTOR

HEADER (Continued..)

Package	Boss	Color	Position	Part Number	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
Loose piece	With	Black	2P	2-2464099-2	O	O						
			3P	2-2464099-3	O	O	O					
			4P	2-2464099-4	O	O	O	O				
			5P	2-2464099-5	O	O	O	O	O			
			6P	2-2464099-6	O	O	O	O	O	O		
			7P	2-2464099-7	O	O	O	O	O	O	O	
			8P	2-2464099-8	O	O	O	O	O	O	O	O
		Yellow	2P	3-2464099-2	O	O						
			3P	3-2464099-3	O	O	O					
			4P	3-2464099-4	O	O	O	O				
			5P	3-2464099-5	O	O	O	O	O			
			6P	3-2464099-6	O	O	O	O	O	O		
			7P	3-2464099-7	O	O	O	O	O	O	O	
			8P	3-2464099-8	O	O	O	O	O	O	O	O
		Green	2P	4-2464099-2	O	O						
			3P	4-2464099-3	O	O	O					
			4P	4-2464099-4	O	O	O	O				
			5P	4-2464099-5	O	O	O	O	O			
			6P	4-2464099-6	O	O	O	O	O	O		
			7P	4-2464099-7	O	O	O	O	O	O	O	
			8P	4-2464099-8	O	O	O	O	O	O	O	O
		Ivory	2P	5-2464099-2	O	O						
			3P	5-2464099-3	O	O	O					
			4P	5-2464099-4	O	O	O	O				
			5P	5-2464099-5	O	O	O	O	O			
			6P	5-2464099-6	O	O	O	O	O	O		
			7P	5-2464099-7	O	O	O	O	O	O	O	
			8P	5-2464099-8	O	O	O	O	O	O	O	O
Taping	Without	Red	2P	2464094-2	O	O						
			3P	2464094-3	O	O	O					
			4P	2464094-4	O	O	O	O				
			5P	2464094-5	O	O	O	O	O			
			6P	2464094-6	O	O	O	O	O	O		
			7P	2464094-7	O	O	O	O	O	O	O	
			8P	2464094-8	O	O	O	O	O	O	O	O
		Blue	2P	1-2464094-2	O	O						
			3P	1-2464094-3	O	O	O					
			4P	1-2464094-4	O	O	O	O				
			5P	1-2464094-5	O	O	O	O	O			
			6P	1-2464094-6	O	O	O	O	O	O		
			7P	1-2464094-7	O	O	O	O	O	O	O	
			8P	1-2464094-8	O	O	O	O	O	O	O	O

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NEXT GENERATION ECONOMY POWER 2.5 CONNECTOR

HEADER (Continued..)

Package	Boss	Color	Position	Part Number	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
Taping	Without	Black	2P	2-2464094-2	O	O						
			3P	2-2464094-3	O	O	O					
			4P	2-2464094-4	O	O	O	O				
			5P	2-2464094-5	O	O	O	O	O			
			6P	2-2464094-6	O	O	O	O	O	O		
			7P	2-2464094-7	O	O	O	O	O	O	O	
			8P	2-2464094-8	O	O	O	O	O	O	O	O
		Yellow	2P	3-2464094-2	O	O						
			3P	3-2464094-3	O	O	O					
			4P	3-2464094-4	O	O	O	O				
			5P	3-2464094-5	O	O	O	O	O			
			6P	3-2464094-6	O	O	O	O	O	O		
			7P	3-2464094-7	O	O	O	O	O	O	O	
			8P	3-2464094-8	O	O	O	O	O	O	O	O
		Green	2P	4-2464094-2	O	O						
			3P	4-2464094-3	O	O	O					
			4P	4-2464094-4	O	O	O	O				
			5P	4-2464094-5	O	O	O	O	O			
			6P	4-2464094-6	O	O	O	O	O	O		
			7P	4-2464094-7	O	O	O	O	O	O	O	
			8P	4-2464094-8	O	O	O	O	O	O	O	O
		Ivory	2P	5-2464094-2	O	O						
			3P	5-2464094-3	O	O	O					
			4P	5-2464094-4	O	O	O	O				
			5P	5-2464094-5	O	O	O	O	O			
			6P	5-2464094-6	O	O	O	O	O	O		
			7P	5-2464094-7	O	O	O	O	O	O	O	
			8P	5-2464094-8	O	O	O	O	O	O	O	O
Loose piece	Without	Red	2P	2464098-2	O	O						
			3P	2464098-3	O	O	O					
			4P	2464098-4	O	O	O	O				
			5P	2464098-5	O	O	O	O	O			
			6P	2464098-6	O	O	O	O	O	O		
			7P	2464098-7	O	O	O	O	O	O	O	
			8P	2464098-8	O	O	O	O	O	O	O	O
		Blue	2P	1-2464098-2	O	O						
			3P	1-2464098-3	O	O	O					
			4P	1-2464098-4	O	O	O	O				
			5P	1-2464098-5	O	O	O	O	O			
			6P	1-2464098-6	O	O	O	O	O	O		
			7P	1-2464098-7	O	O	O	O	O	O	O	
			8P	1-2464098-8	O	O	O	O	O	O	O	O

Housings are also available in multiple colors and in selectively loaded versions. To learn more, please contact your sales representative.

NEXT GENERATION ECONOMY POWER 2.5 CONNECTOR

HEADER (Continued..)

Package	Boss	Color	Position	Part Number	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8		
Loose piece	Without	Black	2P	2-2464098-2	O	O								
			3P	2-2464098-3	O	O	O							
			4P	2-2464098-4	O	O	O	O						
			5P	2-2464098-5	O	O	O	O	O					
			6P	2-2464098-6	O	O	O	O	O	O				
			7P	2-2464098-7	O	O	O	O	O	O	O			
			8P	2-2464098-8	O	O	O	O	O	O	O	O		
		Yellow	2P	3-2464098-2	O	O								
			3P	3-2464098-3	O	O	O							
			4P	3-2464098-4	O	O	O	O						
			5P	3-2464098-5	O	O	O	O	O					
			6P	3-2464098-6	O	O	O	O	O	O				
			7P	3-2464098-7	O	O	O	O	O	O	O			
			8P	3-2464098-8	O	O	O	O	O	O	O	O	O	
		Green	2P	4-2464098-2	O	O								
			3P	4-2464098-3	O	O	O							
			4P	4-2464098-4	O	O	O	O						
			5P	4-2464098-5	O	O	O	O	O					
			6P	4-2464098-6	O	O	O	O	O	O				
			7P	4-2464098-7	O	O	O	O	O	O	O	O		
			8P	4-2464098-8	O	O	O	O	O	O	O	O	O	O
		Ivory	2P	5-2464098-2	O	O								
			3P	5-2464098-3	O	O	O							
			4P	5-2464098-4	O	O	O	O						
			5P	5-2464098-5	O	O	O	O	O					
			6P	5-2464098-6	O	O	O	O	O	O				
			7P	5-2464098-7	O	O	O	O	O	O	O	O		
			8P	5-2464098-8	O	O	O	O	O	O	O	O	O	O
Loose piece	Without	Natural	3P	1-2413782-3	O	X	O							
			5P	1-2413782-5	O	X	O	X	O					
			6P	1-2413782-6	O	X	O	O	O	O				
			6P	2-2413782-6	O	X	O	X	O	X				
			6P	3-2413782-6	O	O	O	O	X	O				
			7P	1-2413782-7	O	X	X	O	O	O	O			
			7P	3-2413782-7	O	X	O	X	O	X	O			
			7P	4-2413782-7	O	O	O	O	X	X	O			
			8P	1-2413782-8	O	O	O	O	O	X	X	X	O	
Taping			Selective version	3P	1-2413791-3	O	X	O						
				5P	1-2413791-5	O	X	O	X	O				
				7P	1-2413791-7	O	X	X	O	O	O	O		

Housings are also available in multiple colors and in selectively loaded versions. To learn more, please contact your sales representative.

NEXT GENERATION ECONOMY POWER 2.5 CONNECTOR

HEADER (Continued..)

Package	Boss	Color	Position	Part Number	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
Loose piece	With	Natural	4P	1-2413793-4	O	X	O	O				
			5P	1-2413793-5	O	X	O	X	O			
			7P	1-2413793-7	O	X	O	X	O	X	O	
			7P	2-2413793-7	O	X	X	O	O	O	O	
			7P	3-2413793-7	O	O	O	O	X	X	O	

O: With pin contact

X: Without pin contact

FOR MORE INFORMATION

ASK OUR EXPERT ►

te.com/next-generation-economy-power-2.5-connector

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12/25