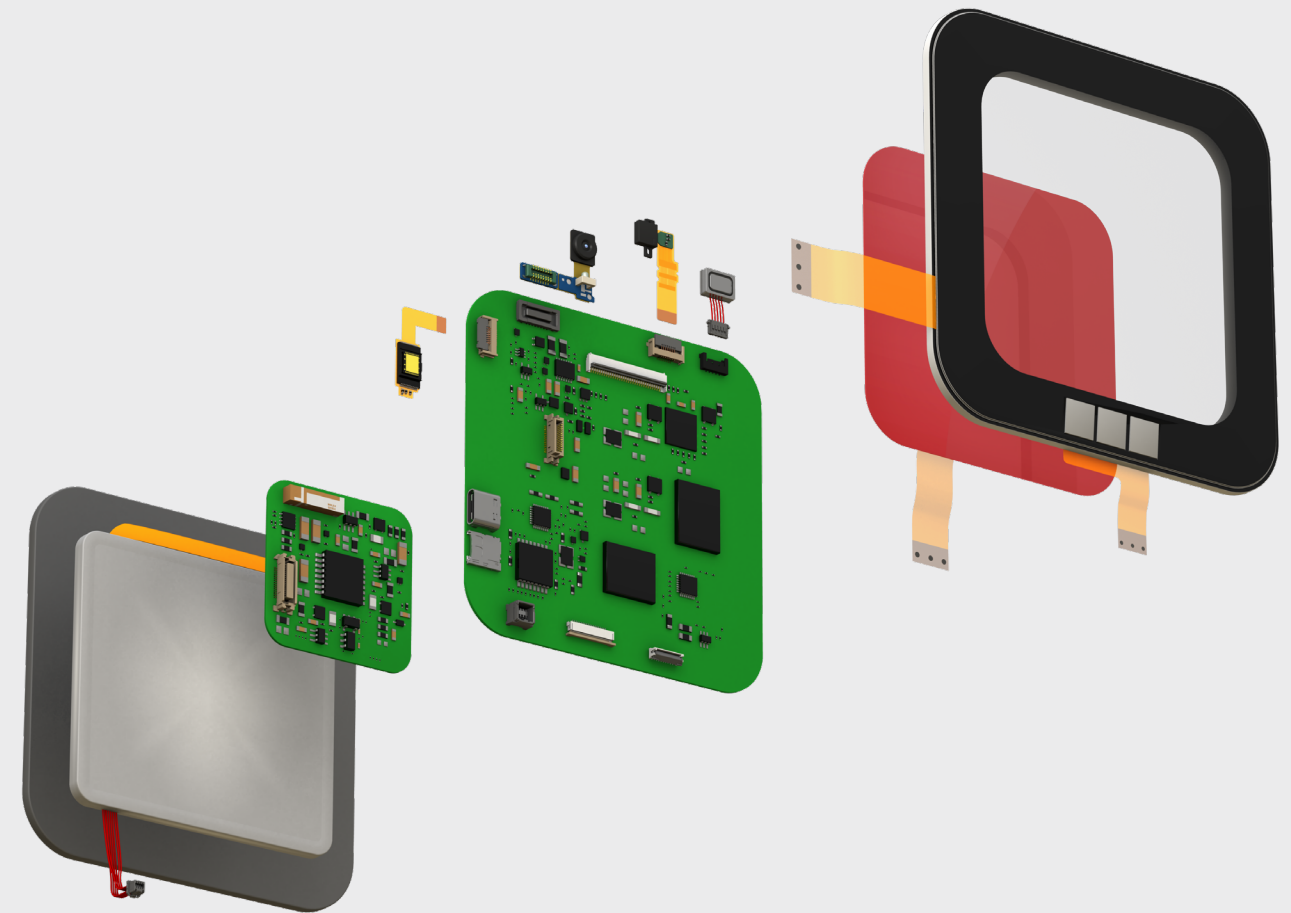
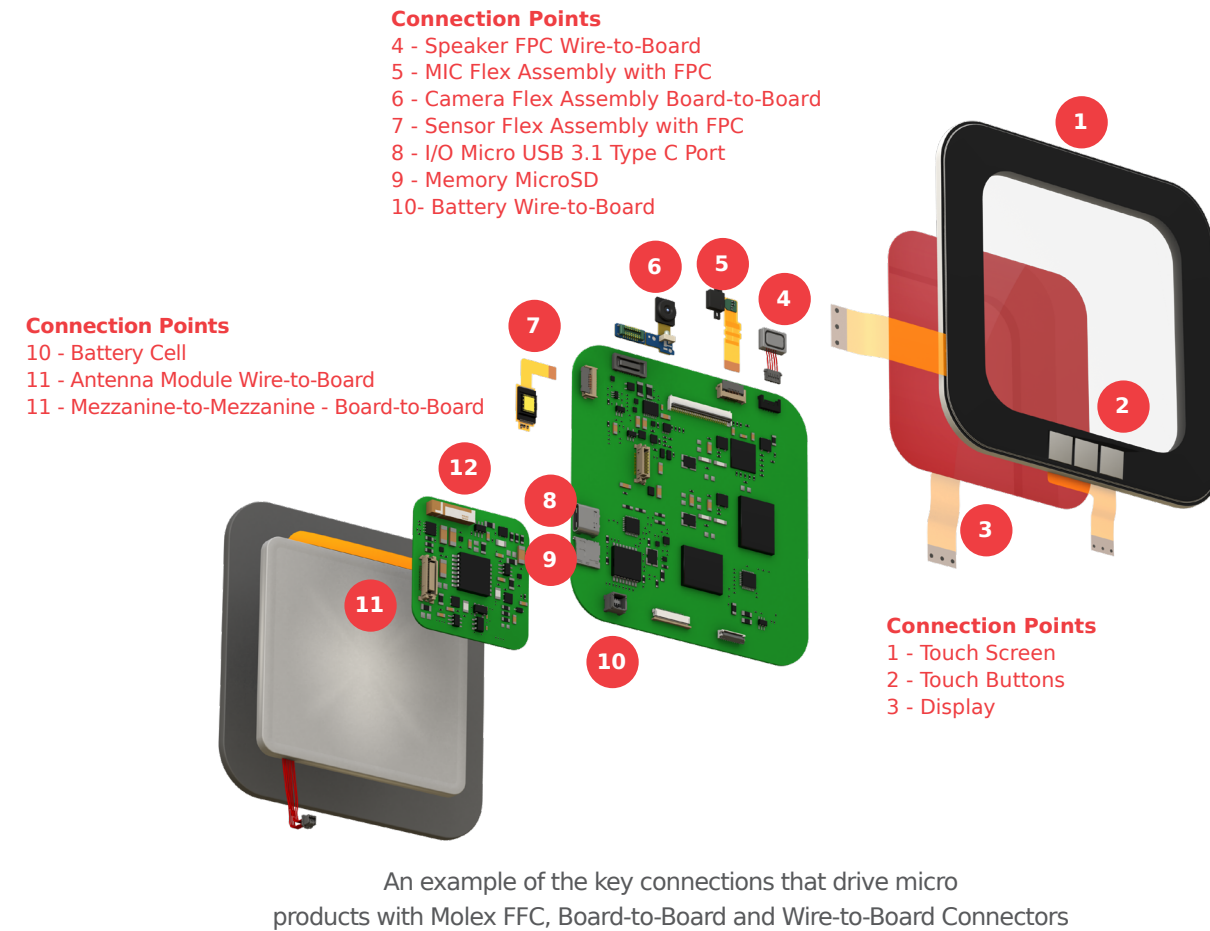


# EASY-ON FFC/FPC, SLIMSTACK BOARD-TO-BOARD AND WIRE-TO-BOARD CORE PRODUCTS >

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## Key Microminiature Connection Points



Microminiature connectors initially designed for consumer handheld devices, are now in applications across many industries. Furthermore, companies are looking for new ways to use technology to reach customers and engage with them. These new application features have translated into more modularity and increased flexible printed assemblies for key features.

Why more applications across industries are using microminiature connectors:

- Increased user interface
- Feature-rich options
- Profile changes

In turn, feature-rich options and increased user interface result in:

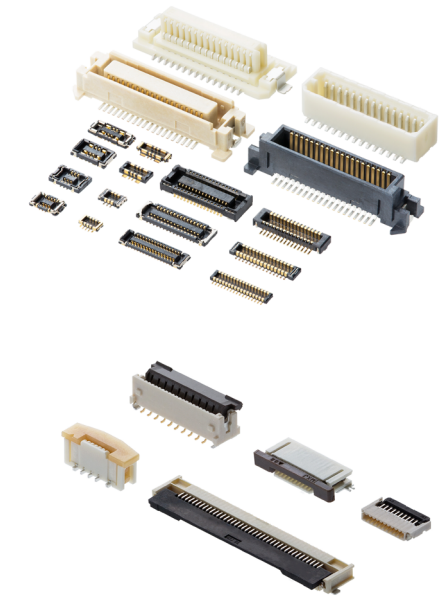
- Increased flexible print assemblies
- Modular design (multiple PCB designs)

All of the above increase the amount of microminiature connection points in applications.

## Key Microminiature Connection Points

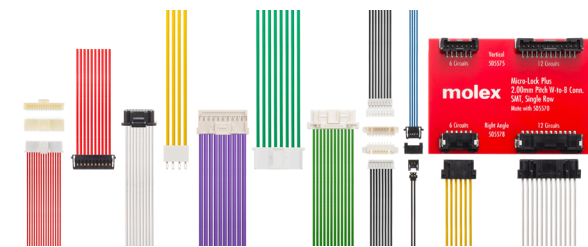
### SLIMSTACK BOARD-TO-BOARD CONNECTORS

SlimStack Board-to-Board Connectors offer a wide selection of low-profile, narrow width options in various mated heights and circuit sizes.



### EASY-ON FFC/FPC CONNECTORS

Super-fine pitch and small-size FFC/FPC Connectors with ZIF, non-ZIF, slider, flip actuator and FPC-to-board styles and a variety of circuit sizes deliver both high reliability and speedy data rates.



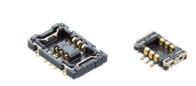
### SIGNAL WIRE-TO-BOARD CONNECTORS

Feature a wide variety of available wire-to-board signal connectors that provide excellent design flexibility and cost-savings.








































## Easy-On FFC/FPC Connector Core Products

Pitch (mm)	Orientation	Contact Position	Circuits	Series Name	Series No.	Image	
0.50	Right-Angle	Dual	4 to 32	FBH1	503480		
		Bottom	4 to 80	FD19	505110		
		Top	4 to 20	Slider	52745		
			21 to 30		52435		
			30 to 50		54104		
		Bottom	4 to 20	52746			
	21 to 30		52437				
	30 to 50		54132				
	Vertical			4 to 70	V-Flip	501951	
				6 to 42	Slider	52559	
1.00	Right-Angle	Bottom	4 to 30	FD19	200528		
		Top	3 to 34	Slider	52207		
			4 to 30		52271		
	Vertical	5 to 30	52610				

## SlimStack Board-to-Board Connectors Core Products

Pitch (mm)	Mated Height (mm)	Mated Width (mm)	Circuits	Series Name	Series No.		Image
					Receptacle	Plug	
0.35	0.60	2.00	6 to 60	SSB RP	505066	505070	
	0.70				505270	505274	
	0.80				505413	505417	
	0.90						
	1.00						
0.40	0.60	2.00	8, 10	Battery (10.0A)	505473	505476	
	0.70	2.60	20 to 60	HRF (7L)	503304	503308	
	0.70	2.60	6 to 18	HRF (7S)	503548	503552	
	0.75	2.50	8	Battery (6.0A)	505004	505006	
	0.80	2.50	10 to 50	B8	505550	505551	
	1.50	3.40	10 to 100	J-Bend	51338	55909	
	1.80	4.20			500913	501745	
	2.00	3.40			51338		
	2.30	4.20			500913		
	0.635	6.00	6.40	20 to 240	0.635	52885	55091
7.00		53625					
8.00		53647					
9.00		53649					
10.00		53627					
12.00		55091			52901	53625	
13.00		53647					
14.00		53649					
15.00		53627					
16.00		53627					



































## Core Signal Connectors 1.00 to 2.50mm Pitch

Pitch (mm)	Product Family	Terminal	Housing	Straight Plug Header	Right-Angle Plug Header	Plating	Lock Type	Circuit Sizes	Wire Gauge	Current (max.)	Voltage (max.)	Key Features	
1.00	Pico-Lock 1.00mm	 503765	 503764	N/A	 503763	Gold	Side Positive	2, 3, 4, 5, 6	AWG 28-30	2.5A	150V	Space saving/ positive side locks/high current	
	Pico-Clasp*	 501334-0000			 501331 (SMT)*	 501568 (SMT)*	Tin	Outer Positive	3, 4, 5	AWG 28-32	2.0A	50V	Small pitch, wide variety Gold plating version available
		 501193-3000	 501330 (Single)* 2, 3, 4, 5 circuits	 504449 (SMT)	 202396 (SMT)	Gold 0.1µm	Friction (2, 3, 4, 5 circuits)						
		 501193-6000	6, 7, 8, 9, 10, 11, 12, 13, 14, 15 circuits	 203556 (SMT)	 203558 (SMT)	Gold 0.38µm							
		 501193-5000	501330 (Single)*	 203557 (SMT)	 203559 (SMT)	Gold 0.76µm							
		 501334-0000		 501940 (SMT)*	 501953 (SMT)*	Tin							
		 501193-3000	 501939 (Single)*	 501940 (SMT)	 501953 (SMT)	Gold 0.1µm							
		 501193-6000		 203560 (SMT)	 203562 (SMT)	Gold 0.38µm							
		 501193-5000		 203561 (SMT)	 203563 (SMT)	Gold 0.76µm							
		 501193-3000	 501189 (Dual, SMT)	 501190 (Dual, SMT)	 501571 (Dual, SMT)	Gold 0.1µm							
		 501193-6000		 203564 (Dual, SMT)	 203566 (Dual, SMT)	Gold 0.38µm	Inner Positive 20, 30, 40, 50						
	 501193-5000		 203565 (Dual, SMT)	 203567 (Dual, SMT)	Gold 0.76µm								

\* Color Variations Available



## Core Signal Connectors 1.00 to 2.50mm Pitch

























Pitch (mm)	Product Family	Terminal	Housing	Straight Plug Header	Right-Angle Plug Header	Plating	Lock Type	Circuit Sizes	Wire Gauge	Current (max.)	Voltage (max.)	Key Features
1.20	Pico-EZmate	 78172	 78172 (Single)	 78171 (SMT)	N/A	Gold	Friction	2, 3, 4, 5, 6, 7	AWG 28-30	2.5A	50V	High current (2P, AWG 28)
	Pico-EZmate Slim	 202655	 202654 (Single)	 202656 (SMT)	N/A	Gold	Friction	2		3.2A		High current (2P, AWG 28)
1.25	PicoBlade	 50058/50079	 51021 (Single)	 53398 (SMT)	 53261 (SMT)	Tin Gold (R/A)	Friction	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 17 (53261, Tin)	AWG 28-32 (50058 Tin only) AWG 26-28 (50079, Tin/Gold)	2.5A	125V	Ultra small size, SMT and through-hole option wire-to-wire is also available
				 53047 (Through-hole)	 53048 (Through-hole)							
	 50125/50133 (Plug terminal)		 51047 (Plug HSG)	N/A	Tin		2, 3, 4, 5, 6, 7, 8, 9, 10	AWG 28-32 (50133) AWG 26-28 (50125)	2.5A	125V	Wire-to-wire	
	Micro-Lock Plus 1.25mm*	 505431	 505432 (Dual)*	 505433 (Dual)*	 505448 (Dual)*	Tin Gold (Contact Molex)	Outer Positive	Single-row 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	AWG 26-30	2.2A	50V	Small size, outer positive lock
 505431	 505432 (Dual)*	 505433 (Dual)*	 505448 (Dual)*	Inner Positive	Dual-row 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42		Small size, inner positive lock					
	Board-in 1.25mm	 50080 / 50061	 51022 (Single)	N/A	N/A	Tin	N/A	2, 3, 4, 5, 6	AWG 28-32 (50061) AWG 26-28 (50080)	1.0A	125V	Board-in
1.50	Pico-Lock 1.50mm	 504052	 504051 (Single)	N/A	 504050 (SMT)	Gold	Side Positive	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12	AWG 24-32	3.5A	150V	Low profile and high current
	Pico-SPOX	 87421-0100 87421-0000	 87439 (Single)	 87437 (SMT)	 87438 (SMT)	Tin	Friction	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15	AWG 24-26 (87421-0000) AWG 26-30 (87421-0100)	2.5A	250V	Ideal solution for higher current wire-to-board configurations in tight packaging applications
 87421-0102 87421-0002	 202705 (SMT)	 202706 (SMT)		Gold	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15	AWG 24-26 (87421-0002) AWG 26-30 (87421-0102)						

\*Color Variations Available



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## Core Signal Connectors 1.00 to 2.50mm Pitch






























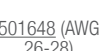











Pitch (mm)	Product Family	Terminal	Housing	Straight Plug Header	Right-Angle Plug Header	Plating	Lock Type	Circuit Sizes	Wire Gauge	Current (max.)	Voltage (max.)	Key Features
1.50	CLIK-Mate*	 502579 (AWG 24-28) 503429 (AWG 26-30)	 502578 (Single)*	 502584 (SMT)*	 502585 (SMT)*	Tin	Inner Positive	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15	AWG 24-28 (502579) AWG 26-30 (503429)	2.0A	100V	Low insertion force, secure mating with audible click
			 503149 (Dual)	 503395 (Bottom entry, SMT)	 N/A			3, 4, 6, 7, 8, 10				Bottom entry
			 503149 (Dual)	 503154 (Dual, SMT)	 503148 (Dual, SMT)			Vertical 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34 Right-Angle 8, 10, 12, 14, 16, 18,				Low insertion force, secure mating with audible click
			 502578 (Single)	 505405 (SMT)	 N/A			2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15				Gold plating version
1.50	Spot-On 1.50mm	 201649	 201647 (Single)	 201648 (SMT) (Single with nail)	 201650 (Retainer)	Tin	Inner Positive	Single 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 Dual 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40	AWG 24-28	2.0A	100V	Potting height: 5.0mm SMT type, center nail for additional mechanical strength
			 201644 (Dual)	 201645 (SMT) (Dual w/o nail)				 201646 (SMT) (Dual with nail)				
2.00	Micro-Lock Plus 2.00mm	 505572	 505570 (Single)	 505575 (SMT)	 505578 (SMT)	Tin Gold (Contact Molex)	Outer Positive	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	AWG 22-26 AVSS 0.3	3.0A	250V	Small size, outer positive lock

\*Color Variations Available





























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## Core Signal Connectors 1.00 to 2.50mm Pitch

Pitch (mm)	Product Family	Terminal	Housing	Straight Plug Header	Right-Angle Plug Header	Plating	Lock Type	Circuit Sizes	Wire Gauge	Current (max.)	Voltage (max.)	Key Features						
2.00	Milli-Grid			 151062 (SMT)	 151064 (SMT)	Gold / Tin	Outer Positive	2, 3, 4, 5, 6, 7, 8, 9, 10	AWG 24-30	2.5A	125V	Outer positive lock, audible click to ensure good mating						
				 151063 (Through-hole)	 151065 (Through-hole)	Gold / Tin	Outer Positive	2, 3, 4, 5, 6, 7, 8, 9, 10										
				 151117 (Through-hole)	 151119 (Through-hole)	Gold / Tin	Friction	4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50										
				 151118 (SMT)	 151120 (SMT)	Gold / Tin	Friction	4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50										
				 87831 (Through-hole)	 87833 (Through-hole)	Gold / Tin	Friction	4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50										
				 51110 (Dual)	 87832 (SMT)	Gold / Tin	Friction	4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50										
				 151014 (Dual) (Cable not included)	 151013 (Through-hole)	Gold	N/A	6, 8, 10, 12, 14, 16, 18, 20										
				 501647 (AWG 22-26)	 501646 (Dual)*	Tin	Inner Positive	10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40										
				 501648 (AWG 26-28)	 501645 (Through-hole)*	Gold	N/A	14, 28										
				 503095 (AWG 26-28)	 503091 (Through-hole)	Tin	Inner Positive	Single 2, 3, 4, 5, 6, 7, 8, 9, 10 Dual 11, 12, 13, 14, 15, 16 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40										
2.00	Milli-Grid BM				N/A	Gold	N/A	6, 8, 10, 12, 14, 16, 18, 20	AWG 24-30	2.0A (Refer to Product Spec for rating chart)	125V	N/A						
													Allow misalignment of up to 1mm in X and Y direction					
2.00	iGrid*					Tin	Inner Positive	10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40	AWG 22-26 (501647) AWG 26-28 (501648)	2.0A	250V	Compact design and anti-tangle internal lock						
															Gold	N/A	14, 28	Gold plating version
															Tin	Inner Positive	Single 2, 3, 4, 5, 6, 7, 8, 9, 10 Dual 11, 12, 13, 14, 15, 16 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40	Potting height: 7.0mm SMT type, center nail for additional mechanical strength
															Tin	Inner Positive	Single 2, 3, 4, 5, 6, 7, 8, 9, 10 Dual 11, 12, 13, 14, 15, 16 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40	Potting height: 7.0mm SMT type, center nail for additional mechanical strength
2.00	Spot-On 2.00mm					Tin	Inner Positive	Single 2, 3, 4, 5, 6, 7, 8, 9, 10 Dual 11, 12, 13, 14, 15, 16 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40	AWG 22-26	2.5A	250V	Potting height: 7.0mm SMT type, center nail for additional mechanical strength						
																		

\* Color Variations Available Natural Black Red Blue Green

## Core Signal Connectors 1.00 to 2.50mm Pitch

Pitch (mm)	Product Family	Terminal	Housing	Straight Plug Header	Right-Angle Plug Header	Plating	Lock Type	Circuit Sizes	Wire Gauge	Current (max.)	Voltage (max.)	Key Features	
2.00	Micro-Latch	 50212/50372	 51065 (Single)	 53253	 53254	Tin	N/A	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15	AWG 24-30 (50212) AWG 22-26 (50372)	2.5A	125V	Low cost, longer market history	
		 50034	 51015 (Straight)	N/A	N/A	Tin	N/A	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	AWG 26-30	2.0A	125V	Board-in	
	 35021	 35023 (Right-Angle)	N/A	N/A	Tin	N/A	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	AWG 24-30	2.5A	125V			
	2.50	Mini-Lock	 50752 (AWG 20-26) with Retainer	 51163 (with Retainer)	 53375 (H=11.5, Through-hole)	 53426 (Through-hole)	Tin	Outer Positive	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15	AWG 20-26	3.0A (50351) (50837) 3.5A (50752) (50709)	250V	Wide variety TPA version available, higher profile version available for potting treatment
 51164 (Retainer)			 53517 (H=17.5, Through-hole)	N/A	N/A	Tin	Outer Positive	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15	AWG 20-26				
 50351			 51103 (Single)	N/A	N/A	Tin	Wire-to-Wire	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15	AWG 22-28				
2.50		Mini-SPOX	 50837	N/A	 51198 Plug Housing	N/A	Tin	Friction	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15	AWG 22-28	3.0A	250V	Low cost, longer market history
			 5263	 5264 (Single)	 5267	 5268	Tin	Friction	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15	AWG 22-28	3.0A	250V	Low cost, longer market history
			 50097	 51035 (Straight)	N/A	N/A	Tin	N/A	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18	AWG 20-24	4.0A	250V	Board-in
 35021	 35022 (Right-Angle)	N/A	N/A	Tin	N/A	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14, 15, 16	AWG 22-28	3.0A	125V				