

WIRE-TO-BOARD SIGNAL CORE PRODUCTS >

0.80 to 2.50mm-Pitch Connectors

PSBU – CORE SIGNAL CONNECTORS

CATEGORY / PITCH (MM)	0.80/1.00/1.20	1.25	1.50/1.80	2.00	2.50
BASIC	OneBlade	PicoBlade	Pico-SPOX	Micro-Latch / Milli-Grid	Mini-SPOX
ENHANCED	Pico-Clasp	Micro-Lock Plus	CLIK-Mate	Micro-Lock Plus / iGrid	Mini-Lock
PRO	Zero-Hachi Pico-Lock Pico-EZmate Pico-EZmate Plus		Pico-Lock Pico-EZmate HC	Pico-Lock / Micro-One	



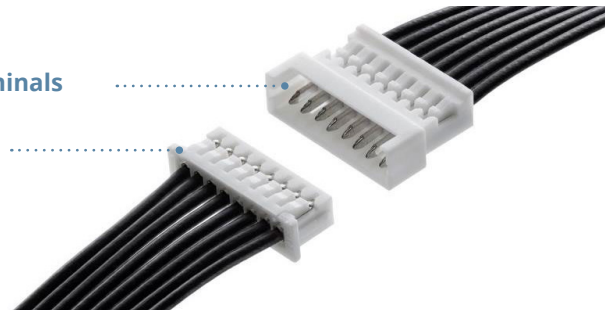
BASIC

Offers:

- Basic minimum necessary functions of connector
- Friction lock
- Unshrouded housings
- Tin-plated terminals

Tin-plated Terminals

Friction Lock



ENHANCED

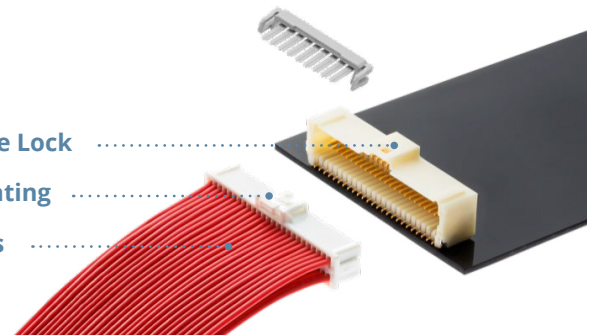
Offers:

- Additional values over Basic connector
- Positive locking
- Gold-plated available
- TPA options

High-retention Positive Lock

Click Feeling When Mating

Plating and Color Options



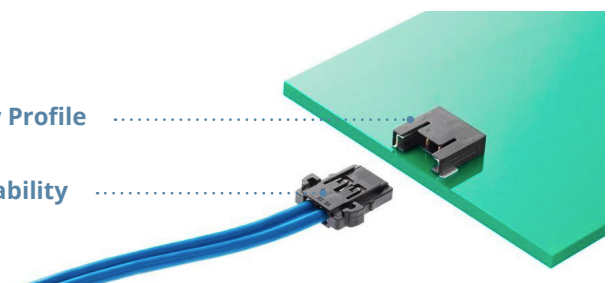
PRO

Offers:

- Lowest profile
- Higher current density
- Integrated ISL (Independent Secondary Lock)

Ultra-Low Profile

Higher-Current Capability



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Pitch (mm)	Product Family	Terminal	Housing	Vertical Header	Right-Angle Header or TPA Retainer	Plating	Lock Type	Circuit Sizes	Wire Gauge (AWG)	Current (max.)*	Voltage (max.)	Basic, Enhanced, Pro, Unique				
0.80	Zero-Hachi	 214720	 214719	N/A	 214721 (SMT)	Tin Au 0.1µm	Friction	2,3,4,5,6,7 8,9,10,11, 12,13,14, 15,16,17, 18,19,20	28 to 32	2.5A	30V	 Pro				
1.00	OneBlade	 214093	 214092	 214094 (SMT)	 214097 (SMT)	Tin	Friction	2,3,4,5 6,7,8	28 to 32	2.5A	100V	 Basic				
	Pico-Lock 1.0	 503765	 503764	N/A	 503763 (SMT)	Gold flash	Side Positive	2,3,4,5,6	28 to 30	2.5A	150V	 Pro				
	Pico-Clasp 1.0	 5013340000	 2,3,4,5 circuits	 501331 (SMT)	 501568 (SMT)	Tin	Friction 2,3,4,5 Inner Positive 6,7,8,9,10, 11,12,13, 14,15	28 to 32	2.0A	100V	 Enhanced					
		 5011937000	 6,7,8,9,10, 11,12,13, 14,15 circuits	 504449 (SMT)	 202396 (SMT)	Gold flash										
		 5011938000	 501330	 203556 (SMT)	 203558 (SMT)	Gold 0.38µm										
		 5011939000	 203557 (SMT)	 203559 (SMT)	 203559 (SMT)	Gold 0.76µm										
		 5013340000	 501940 (SMT)	 501953 (SMT)	 501953 (SMT)	Tin										
		 5011937000	 501940 (SMT)	 501953 (SMT)	 501953 (SMT)	Gold flash						Outer Positive	3,4,5	28 to 32	1.5A	100V
		 5011938000	 501939	 203560 (SMT)	 203562 (SMT)	Gold 0.38µm										

* When using minimum circuit size and maximum wire gauge. Current (max.) *is for reference only.

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1.00	Pico-Clasp 1.0	 5011939000	 501939	 203561 (SMT)	 203563 (SMT)	Gold 0.76µm	Outer Positive	3,4,5		1.5A	100V	 Enhanced
		 5011937000		 501190 (Dual, SMT)	 501571 (Dual, SMT)	Gold flash						
		 5011938000	 501189 (Dual, SMT)	 203564 (Dual, SMT)	 203566 (Dual, SMT)	Gold 0.38µm	Inner Positive	20,30,40	28 to 32	1.0A		
		 5011939000		 203565 (Dual, SMT)	 203567 (Dual, SMT)	Gold 0.76µm						

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1.00	Pico-EZmate Plus 1.0	 204017	 212132	 212134 (SMT)	N/A	Gold 0.1µm	Friction	2,3,4,5,6	28 to 30	2.8A	50V	 Pro
1.20	Pico-EZmate 1.2	 78172	 78172	 78171 (SMT)	N/A	Gold 0.1µm				2.5A		
1.25	PicoBlade	 50058/50079	 51021	 53398 (SMT)	 53261 (SMT)	Tin Gold flash Gold	Friction	2,3,4,5,6, 7,8,9,10, 11,12,13, 14,15	28 to 32 (50058)	2.5A	125V	 Basic
				 53047 (T/H)	 53048 (T/H)							
	 50125/50133 (Plug terminal)	 51047 (Plug HSG)	N/A	N/A	Tin	2,3,4,5,6, 7,8,9,10			28 to 32 (50133)	26 to 28 (50125)		
	Micro-Lock Plus 1.25	 505565 (Single)	 505568 (Single, SMT)	 505567 (Single, SMT)	 505567 (Single, SMT)	N/A			Tin Gold 0.10µm Gold 0.38µm Gold 0.76µm	Outer Positive		
 204532 (Single, LH)							 205957 (Single, Potting, LH)	N/A	Tin		 Enhanced for Potting	
 505432 (Dual)		 505433 (Dual, SMT)	 505448 (Dual, SMT)	N/A	N/A	N/A	Tin Gold 0.1µm Gold 0.38µm Gold 0.76µm	Inner Positive	8,10,12,14, 16,18,20,22, 24,26,28,30, 32,34,36, 38,40,42 (Dual Row)	2.5A	 Enhanced	
							 204523 (Dual)				 207760 (Dual, LH)	N/A
 214524		N/A	 214525 (Single, Plug)	N/A	N/A	N/A	Gold 0.1µm		2, 3, 4, 5 6, 7, 8, 9	3.2A	50V	 Enhanced

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1.50	Pico-Lock 1.5	 504052	 504051	N/A	 504050 (SMT)	Gold flash	Side Positive	2,3,4,5,6, 7,8,9,10, 11,12	24 to 32	3.5A	150V	 Pro	
	Pico-SPOX 1.5	 87421-0000/0100	 87437	 87437 (SMT)	 87438 (SMT)	Tin	Friction	2,3,4,5,6, 7,8, 9,10, 11,12,13, 14,15	24 to 26 (87421-0000) 26 to 30 (87421-0100)	3.5A	250V	 Basic	
		 87421-0102/0002		 87439	 202705 (SMT)	 202706 (SMT)		Gold flash	2,3,4,5,6, 7,8,9,10, 11,12,13, 14,15				24 to 26 (87421-0002) 26-30 (87421-0102)
	CLIK-Mate 1.5	 502578 (Single)	 503159 (T/H)	 502584 (SMT)	 502585 (SMT)	Tin	Inner Positive	2,3,4,5,6, 7,8,9,10, 11,12,13, 14,15	24 to 28 (502579) 26 to 30 (503429)	3.0A	100V	 Enhanced	
				 503175 (T/H)	 503195 (Bottom entry, SMT)			N/A					3,4,6,7, 8,10
				 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, 18,20,22,24,26
		502579, 503429	 502578 (Single)	 213225 (SMT)	 213226 (SMT)	N/A	Gold 0.1µm Gold 0.38µm	Inner Positive	2,3,4,5,6, 7,8,9,10, 11,12,13, 14,15	24 to 26 (213028) 26 to 28 (213029)	3.0A	100V	 Enhanced
					 213227 (Dual, SMT)				 213228 (Dual, SMT)				
		213028, 213029	 503149 (Dual)	 213227 (Dual, SMT)	 213228 (Dual, SMT)	N/A	Gold 0.76µm	Inner Positive	8,10,12, 14,16,18, 20,22,24, 26,28,30, 32,34	24 to 26 (213028) 26 to 28 (213029)	3.0A	100V	 Enhanced
					 213228 (Dual, SMT)				 213228 (Dual, SMT)				

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1.50	Spot-On 1.5		 201647 (Signal)	 201648 (SMT) (Single with nail)	 201650 (Retainer)	Tin	Inner Positive	2,3,4,5,6,7,8,9,10,11,12,13,14,15,16 (Single) 10,12,14,16,18,20,22,24,26,28,30,32,34,36,38,40 (Dual)	24 to 28	4.0A	100V	Unique
			 201645 (SMT) (Dual w/o nail)	 201646 (SMT) (Dual with nail)								
			 201649	 201644 (Dual)								
			 201644 (Dual)	 201646 (SMT) (Dual with nail)								
1.80	Pico-EZmate HC	 208299	 208298	 208294 (SMT)	N/A	Tin	Friction	2,3,4,5	22 to 24	5.0A	250V	 Pro
2.00	Micro-Lock Plus 2.0	 505572	 505570	 505575 (SMT)	 505578 (SMT)	Tin Gold 0.1um, Gold 0.38um, Gold 0.76um	Outer Positive	2,3,4,5,6,7,8,9,10,11,12,13,14,15,16	22 to 26	4.7A	250V	 Enhanced
			 213720	N/A	 213719	N/A	Tin	Outer Positive	2,3,4,5,6,7,8,9	22 to 26		3.4A
	Pico-Lock 2.0	 205342	 205341	N/A	 205338 (SMT)	Gold Flash	Side Positive	2,3,4,5,6	20 to 26	6.5A		 Pro

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2.00	Milli-Grid 2.0					Gold / Tin	Outer Positive	2,3,4,5,6,7,8,9,10	24 to 30	3.6A	125V		
					N/A								
	Milli-Grid BMI 2.0			N/A	Gold	N/A	6,8,10,12,14,16,18,20		4.5A	125V			
	iGrid 2.0					Tin	Inner Positive	10,12,14,16,18,20,22,24,26,28,30,32,34,36,38,40	22 to 26 (501647)	3.0A	250V		
				26 to 28 (501648)									
						Gold flash			22 to 24 26 to 28 (503095)				

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2.00	Spot-On 2.0	 201195	 201200	 201201 (SMT)	 201196 (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	22 to 26	3.0A	250V	Unique						
			 201196 (Dual)	 201197 (Dual, SMT)						2.5A								
		 50212, 50372	 51065	 53253 (T/H)	 53254 (T/H)					N/A			Gold 0.1µm	Friction	2,3,4, 5,6,7,8, 9,10,11, 12,13, 14,15	24 to 30 (50212)	4.5A	 Basic
				 502603 (T/H)	22 to 26 (50372)											3.5A		
	Micro-Latch 2.0	 59354	 51065	 502603 (T/H)	N/A	Gold 0.1µm	Friction	24 to 28	3.5A									

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2.00	Board-in 2.0	 50034	 51015 (Straight)	N/A	N/A	Tin	N/A	2,3,4,5, 6,7,8,9,10	26 to 30	2.0A	125V	Unique	
		 35021	 35023 (Right Angle)	N/A	N/A								24 to 30
	Micro-One	 56134	 212724	 205971 for non GW 217063 for potting/ GW	 205972 for non GW 217064 for	Tin	Inner Positive	2,3,4,5,6,7,8	22 to 24 26 to 28 (56134)	4.0A	250V	 Pro	
			 220029 (T/H)	 220030 (T/H)	Tin, Gold or N/A								
2.50	Mini-Lock 2.5	 50752	 51163	 53375 (H=11.5, T/H)	 53426 (T/H)	Tin	Outer Positive	2,3,4,5,6,7,8, 9,10,11,12,13, 14,15	20 to 26	5.0A	250V	 Enhanced	
			 51164	 215931 (SMT)	 215932 (SMT)								
	CP-2.5 Mini	 50397	 500592	N/A			Inner Positive	2,3,4,5,6,7,8	22 to 28	3.0A		250V	Unique
		 50398	N/A	 500593 (Plug Housing)	 500817 (Retainer)								
	Mini-SPOX 2.5	 5263	 5264	 5267	 5268		Friction	2,3,4,5,6, 7,8,9,10,11, 12,13,14,15	22 to 28	4.0A		 Basic	

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








Pitch (mm)	Product Family	Terminal	Housing	Vertical Header	Right-Angle Header or TPA Retainer	Plating	Lock Type	Circuit Sizes	Wire Gauge (AWG)	Current (max.)*	Voltage (max.)	Basic, Enhanced, Pro, Unique
2.50	Board-in 2.5	 50097	 51035 (Straight)	N/A	N/A	Tin	N/A	2,3,4,5, 6,7,8,9,10, 11,12	20 to 24	4.0A	250V	Unique
		 35021	 35022 (Right Angle)	N/A	N/A			2,3,4,5,6, 7,8,9,10,11, 12,14,15	22 to 28	3.0A	125V	
	MUO	 56134 59370 505597	 505596	N/A	 505594		N/A	2,4,6	22 to 28 (56134/ 59370) 20 (505597)	6.0A	250V	Unique

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3.00 to 6.50mm-Pitch Connectors

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Pitch (mm)	Product Family	Terminal	Housing	Vertical Header	Right-Angle Header or TPA Retainer	Plating	Lock Type	Circuit Sizes	Wire Gauge (AWG)	Current (max.)*	Voltage (max.)	Basic, Enhanced, Pro, Unique		
3.30	CP-3.3 WTW	 50397, 505607	 504693	N/A		Tin	Inner Positive	2,3,4,6	18 to 20 (505607) 22 to 28 (50397)	7.5A	500V	Unique		
		 50398, 505608	N/A	 504694 (Plug Housing)										
		 50397, 505607	 505605 (Dual)	N/A										
		 50398, 505608	N/A	 505606 (Dual)	504695 (Retainer)									
	CP-3.3 WTB	 50397, 505607	 212209	 212210	 212213 (Retainer)				4,6,8,10,12	18 to 20 (505607) 22 to 28 (50397)			7.0A	8.5A
	4.50	CP-4.5 WTB	 206997	 206997	N/A				2,4,6	16 to 20 (206999) 22 to 26 (207000)			10.0A	600V
			 206999, 207000	N/A	 206996 (Plug Housing)			 206998						
	6.50	CP-6.5 WTW	 50597, 50598	 151049, 151207	N/A				16 to 20 (50397) 22-24 (50398)	12.5A			600V	
 205032, 205033			N/A	 203438 (Plug Housing)	 51143 (Retainer)									

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6.5	CP-6.5 WTB	 50597, 50598	 151049, 151207	 151048	 203551xxx (Through)	Tin	Inner Positive	2,4,6	16 to 20 (50397) 22 to 24 (50398)	12.5A	600V	Unique
				N/A	 203552xxx (SMT)							

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www.molex.com/link/wtb_signal.html