

Micro-Fit 3.0™ Family

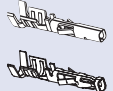
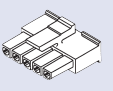
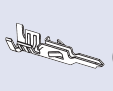
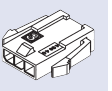
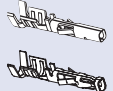
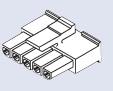
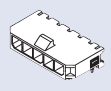
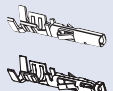
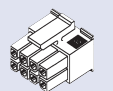

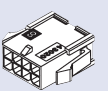
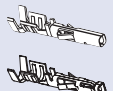
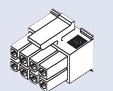
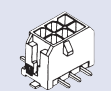


## MICRO-FIT 3.0 OVERVIEW

# molex® 3.00mm (.118") Pitch Micro-Fit 3.0™ Family

The Micro-Fit 3.0 connectors are the perfect choice when you need compact connectors that can carry up to 5.0A of current. Micro-Fit 3.0 is available in circuit sizes 2 to 24 for wire-to-board, wire-to-wire and board-to-board applications. This expansive product line offers through hole and SMT options. SMT versions are available in tape and reel packaging for robotic placement on the PCB. Besides the standard offerings, Micro-Fit 3.0 is also available in BMI, Standard CPI and BMI CPI versions.

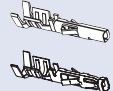
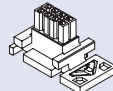

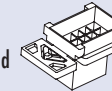
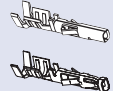
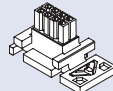
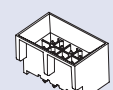


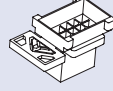
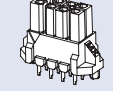
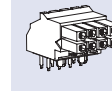
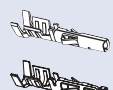
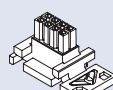
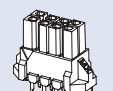
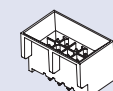
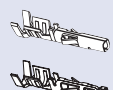
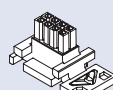
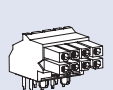
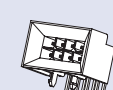
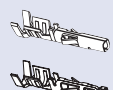
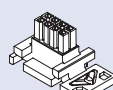
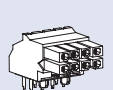
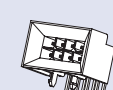

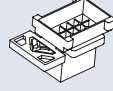
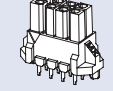
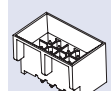
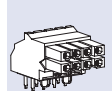
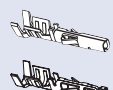
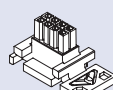
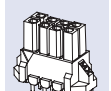
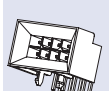
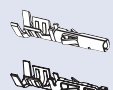
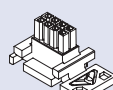
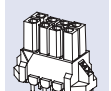
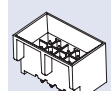
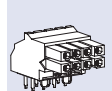
- Fully isolated contacts
- Full polarization
- Positive locks
- Up to 5.0A per circuit
- 250V AC rating
- UL 94V-0, CSA, TUV approved

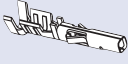


Wire-to-Wire Single Row Connector System				Wire-to-Board Single Row Connector System			
	and		Mate to:		and		
Female Terminal 43030/46235		Receptacle 43645		Male Terminal 43031		Plug 43640	
	and		Mate to:		or	Any 43650 Header	
Female Terminal 43030/46235		Receptacle 43645		Right Angle SMT with Clips 43650			
Wire-to-Wire Dual Row Connector System				Wire-to-Board Dual Row Connector System			
	and		Mate to:		and		
Female Terminal 43030/46235		Receptacle 43025		Male Terminal 43031		Plug 43020	
	and		Mate to:		or	Any 43045 or 44914 Header	
Female Terminal 43030/46235		Receptacle 43025		Vertical SMT with Nails 43045			

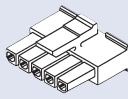
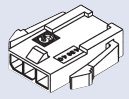
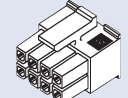
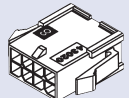
## MICRO-FIT 3.0, BMI OVERVIEW

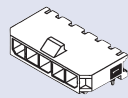
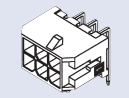
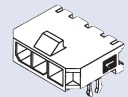
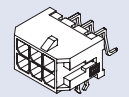
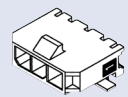
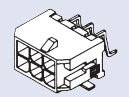
Micro-Fit 3.0, BMI™ (Blind Mate Interface) features an innovative panel mounting design that securely locks the plugs and receptacles in place in the panel cutout, while allowing for removal. The plugs and headers feature a funnel entry to guide the mating receptacle or receptacle header into place. Micro-Fit 3.0, BMI housings and headers mate exclusively with the BMI components shown here.

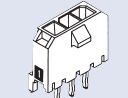
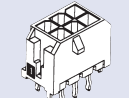
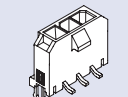
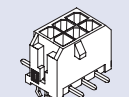
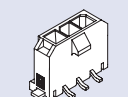
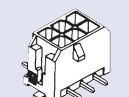
- Full polarization
- Fully isolated contacts
- Dual row
- Sizes 4 to 24 circuits
- Up to 5.0A per circuit
- Up to 1500V AC dielectric withstand voltage
- UL 94V-0, CSA, TUV approved

Wire-to-Wire BMI Connector System				Board-to-Board BMI Connector System			
	and		Mate to:		and		
Female Terminal 43030/46235		Receptacle 44133		Male Terminal 43031		Plug 44300	
	and		Mate to:		or		
Female Terminal 43030/46235		Receptacle 44133		Vertical 44432/45280		Right Angle 44428	
	and		Mate to:		or		
Male Terminal 43031		Plug 44300		Vertical 44769		Right Angle 44764	
Wire-to-Board BMI Connector System				Horizontal Boards			
	and		Mate to:		Mate to:		
Female Terminal 43030/46235		Receptacle 44133		Vertical 44769		Vertical 44432/45280	
	and		Mate to:		Mate to:		
Female Terminal 43030/46235		Receptacle 44133		Right Angle 44764		Right Angle 44428	
Wire-to-Board BMI Connector System				Coplanar Boards			
	and		Mate to:		Mate to:		
Female Terminal 43030/46235		Receptacle 44133		Right Angle 44764		Right Angle 44428	
	and		Mate to:		OR		Mate to:
Male Terminal 43031		Plug 44300		Vertical 44769		Vertical 44432/45280	
				Vertical 44769	Mate to:	Right Angle 44428	Right Angle 44764
				Vertical 44769		Vertical 44432/45280	Right Angle 44764
Wire-to-Board BMI Connector System				Right Angle Boards			
	and		Mate to:		Mate to:		OR
Female Terminal 43030/46235		Receptacle 44133		Vertical 44769		Right Angle 44428	
	and		Mate to:		Mate to:		Mate to:
Female Terminal 43030/46235		Receptacle 44133		Vertical 44769		Vertical 44432/45280	
				Vertical 44769		Vertical 44432/45280	Right Angle 44764

Micro-Fit 3.0 Crimp Terminals					
	Description	Order No.		Wire Gauge	Plating
		Reel	Bag		
	Standard Female Terminal	43030-0001	43030-0007	20 - 24	Tin
		43030-0004	43030-0010	26 - 30	
		43030-0002	43030-0008	20 - 24	15µ" Gold
		43030-0005	43030-0011	26 - 30	30µ" Gold
		43030-0003	43030-0009	20 - 24	
		43030-0006	43030-0012	26 - 30	
	Low Force Female Terminal	46235-0001	NA	20 - 24	15µ" Gold
		46235-0003	NA	26 - 30	30µ" Gold
		46235-0002	NA	20 - 24	
	Low Force Female Terminal Lubricated	46235-5004	NA	26 - 30	15µ" Gold
		46235-5001	NA	20 - 24	
		46235-5003	NA	26 - 30	30µ" Gold
	Male Terminal	43031-0001	43031-0007	20 - 24	Tin
		43031-0004	43031-0010	26 - 30	
		43031-0002	43031-0008	20 - 24	15µ" Gold
		43031-0005	43031-0011	26 - 30	30µ" Gold
		43031-0003	43031-0009	20 - 24	
		43031-0006	43031-0012	26 - 30	

Micro-Fit 3.0 Crimp Housings							
	Description	Order No.	Material		Description	Order No.	Material
Receptacles (Use with 43030 or 46235 terminals)				Plugs (Use with 43031 terminals)			
	Single Row	43645-XX00	Black Polyester		Single Row, Free Hanging	43640-XX01	Black Polyester
					Single Row, Panel Mount	43640-XX00	
	Dual Row	43025-XX00	Black Polyester		Dual Row, Free Hanging	43020-XX01	Black Polyester
					Dual Row, Panel Mount	43020-XX00	

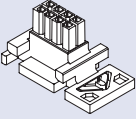
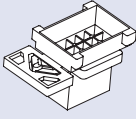
Micro-Fit 3.0 Right Angle Headers									
Single Row	Description	Order No.	Plating	Material	Dual Row	Description	Order No.	Plating	Material
	Surface Mount Compatible with Pegs	43650-XX00	Tin	High Temp, Black LCP		Surface Mount Compatible with Pegs	43045-XX00	Tin	High Temp, Black LCP
		43650-XX01	15µ" Gold				43045-XX01	15µ" Gold	
		43650-XX02	30µ" Gold				43045-XX02	30µ" Gold	
	SMT with Solderable Retention Clip	43650-XX09	Tin	High Temp, Black LCP		SMT with Solderable Retention Clip	43045-XX06	Tin	High Temp, Black LCP
		43650-XX10	15µ" Gold				43045-XX07	15µ" Gold	
		43650-XX11	30µ" Gold				43045-XX08	30µ" Gold	
	SMT with Solder Tabs	43650-XX12	Tin	High Temp, Black LCP		SMT with Solder Tabs	43045-XX09	Tin	High Temp, Black LCP
		43650-XX13	15µ" Gold				43045-XX10	15µ" Gold	
		43650-XX14	30µ" Gold				43045-XX11	30µ" Gold	

Micro-Fit 3.0 Vertical Headers									
Single Row	Description	Order No.	Plating	Material	Dual Row	Description	Order No.	Plating	Material
	Surface Mount Compatible with Pegs	43650-XX15	Tin	High Temp, Black LCP		Surface Mount Compatible with Pegs	43045-XX12	Tin	High Temp, Black LCP
		43650-XX16	15µ" Gold				43045-XX13	15µ" Gold	
		43650-XX17	30µ" Gold				43045-XX14	30µ" Gold	
	SMT with Solderable Retention Clip	43650-XX21	Tin	High Temp, Black LCP		SMT with Solderable Retention Clip	43045-XX15	Tin	High Temp, Black LCP
		43650-XX22	15µ" Gold				43045-XX16	15µ" Gold	
		43650-XX23	30µ" Gold				43045-XX17	30µ" Gold	
	SMT with Solder Tabs	43650-XX24	Tin	High Temp, Black LCP		SMT with Solder Tabs	43045-XX18	Tin	High Temp, Black LCP
		43650-XX25	15µ" Gold				43045-XX19	15µ" Gold	
		43650-XX26	30µ" Gold				43045-XX20	30µ" Gold	

Replace XX with number of circuits 02 to 24

**Micro-Fit 3.0 BMI Crimp Housings, Panel Mount**

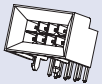
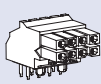
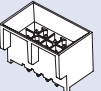

- Use standard Micro-Fit terminals
- Receptacle floats in panel cutout up to 1.27mm (.050") in any direction
- Can be utilized with BMI board-to-board connectors
- Panel thickness: 1.57mm (.062")

	Description	Order No.	Material	Use With		Description	Order No.	Material	Use With
	Panel Mount Receptacle	44133-XX00	Black, Polyester	43030 Terminal		Panel Mount Plug	44300-XX00	Black, Polyester	43031 Terminal

Replace XX with number of circuits 04 to 24

**Micro-Fit 3.0 BMI Headers**

- Can be utilized with BMI wire-to-wire connectors
- 1.57mm (.062") PCB thickness
- Surface mount compatible (SMC)
- Black, glass filled nylon housings

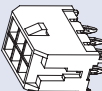

Right Angle							
	Description	Order No.	Plating		Description	Order No.	Plating
	Right Angle Header with Pegs	44428-XX01	Tin		Right Angle Receptacle	44764-XX01	Tin
		44428-XX02	15µ" Gold			44764-XX02	15µ" Gold
		44428-XX03	30µ" Gold			44764-XX03	30µ" Gold
Vertical							
	Vertical Header with Pegs	44432-XX01	Tin		Vertical Receptacle	44769-XX01	Tin
		44432-XX02	15µ" Gold			44769-XX02	15µ" Gold
		44432-XX03	30µ" Gold			44769-XX03	30µ" Gold

Replace XX with number of circuits 04 to 24

**MICRO-FIT 3.0, CPI AND MICRO-FIT 3.0, BMI CPI**

The Micro-Fit 3.0, CPI (Compliant Pin Interface) and Micro-Fit 3.0, BMI CPI (Blind Mate Version with Compliant Pin Interface) are vertical header product extensions featuring press-fit PC tails.

- CPI style (Press-Fit) pins require no soldering to the PCB
- 2.36mm (.093") minimum PCB thickness

Micro-Fit 3.0, Standard CPI					Micro-Fit 3.0, BMI CPI				
	Description	Order No.	Plating	Material		Description	Order No.	Plating	Material
	Standard Vertical CPI	44914-XX01	Tin	High Temp, Black LCP		Blind Mate Vertical CPI	45280-XX01	Tin	High Temp, Black Glass-Filled Nylon
		44914-XX02	15µ" Gold				45280-XX02	15µ" Gold	
		44914-XX03	30µ" Gold				45280-XX03	30µ" Gold	

Replace XX with number of circuits 04 to 24

**MICRO-FIT 3.0 TEST PLUG**

- Gold-plated beryllium copper contacts precision made for long life
- Rated for 10,000 mating cycles
- Fully isolated contacts
- To test single row receptacles, use test plugs with twice the circuit size of the tested part
- To be used for continuity testing only, cannot be mated or unmated under current loading

	Description	Order No.
	Test Plug	44242-00XX

Replace XX with 01 to 11 for circuit sizes from 04 to 24