

MICRO-FIT 3.0, BMI



Wire-to-Wire BMI Connector System

Female Terminal 43030 and Receptacle 44133 Mate to: Male Terminal 43031 and Plug 44300

Wire-to-Board BMI Connector System

Female Terminal 43030 and Receptacle 44133 Mate to: Vertical 44432/45280 or Right Angle 44428

Male Terminal 43031 and Plug 44300 Mate to: Vertical 44769 or Right Angle 44764

Board-to-Board BMI Connector System

Horizontal Boards

Vertical 44769 Mate to: Vertical 44432/45280

Coplanar Boards

Right Angle 44764 Mate to: Right Angle 44428

Right Angle Boards

Vertical 44769 Mate to: Right Angle 44428 OR Vertical 44432/45280 Mate to: Right Angle 44764

MICRO-FIT 3.0 FAMILY APPLICATION EXAMPLES

- Personal Computers
- Work Stations
- Vending Machines
- Mainframe Computers
- Pin Ball Machines
- Handheld Computers
- Satellites
- Cellular Telephones
- Stet Machines
- Notebook PCs
- AC Power Line Cards
- Exercise Equipment
- Fan Tray Assemblies
- Coffeemakers
- Backplane Applications
- Power Supplies
- Fax Machines



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MICRO-FIT 3.0



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

Crimp Terminals

Description	Order No.		Wire Gauge	Plating
	Reel	Bag		
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	
	43030-0003	43030-0009	20 - 24	30µ" Gold
	43030-0006	43030-0012	26 - 30	
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	
	43031-0003	43031-0009	20 - 24	30µ" Gold
	43031-0006	43031-0012	26 - 30	

Crimp Housings

Description	Order No.	Material	Plugs (Use with 43031 terminals)		
			Description	Order No.	Material
Single Row Receptacles (Use with 43030 terminals)	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	

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 Temperature, Black LCP	Surface Mount Compatible with Pegs		43045-XX00	Tin	High Temperature, 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 Temperature, Black LCP	SMT with Solderable Retention Clip		43045-XX06	Tin	High Temperature, 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 Temperature, Black LCP	SMT with Solder Tabs		43045-XX09	Tin	High Temperature, Black LCP
		43650-XX13	15µ" Gold				43045-XX10	15µ" Gold	
		43650-XX14	30µ" Gold			43045-XX11	30µ" Gold		

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 Temperature, Black LCP	Surface Mount Compatible with Pegs		43045-XX12	Tin	High Temperature, 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 Temperature, Black LCP	SMT with Solderable Retention Clip		43045-XX15	Tin	High Temperature, 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 Temperature, Black LCP	SMT with Solder Tabs		43045-XX18	Tin	High Temperature, 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

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

The Micro-Fit 3.0 is a unique connector system that incorporates many of the features previously found only on large power connectors. These 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 and wire-to-wire applications. With more than 500 part numbers and still growing, 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.

Wire-to-Wire Single Row Connector System



Wire-to-Board Single Row Connector System



Wire-to-Wire Dual Row Connector System



Wire-to-Board Dual Row Connector System



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 Male 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

Standard CPI

	Description	Order No.	Plating	Material
	Standard Vertical CPI	44914-XX01	Tin	High Temperature, Black LCP
		44914-XX02	12µ" Gold	
		44914-XX03	30µ" Gold	

BMI CPI

	Description	Order No.	Plating	Material
	Blind Male Vertical CPI	45280-XX01	Tin	High Temperature, Black Glass-Filled Nylon
		45280-XX02	12µ" Gold	
		45280-XX03	30µ" Gold	

MICRO-FIT 3.0, BMI

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

Micro-Fit 3.0, BMI™ (Blind Male 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

Crimp Housings

- 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
	Panel Mount Receptacle	44133-XX00	Black, Polyester
	Panel Mount Plug	44300-XX00	Black, Polyester

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

	Description	Order No.	Plating		Description	Order No.	Plating
	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