

Eurostyle™ ESE PCB Terminal Blocks Pluggable and Fixed Mount

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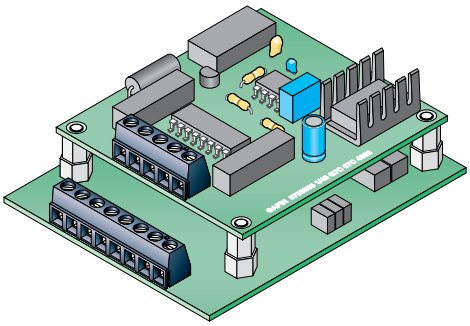
Pluggable and Fixed Mount

Fulfill your terminal block design requirements with a new and extensive range of ESE PCB terminal blocks from Molex.

Choose from a variety of Molex ESE (Eurostyle Extension) PCB terminal blocks. This new product line includes pitch sizes from 3.50 to 5.08mm (.138 to .200") and is rated at 300V, from 8.0 to 15.0A. Select from fixed (single-piece) or pluggable (two-piece) terminal blocks from circuit sizes 2 through 24.

All ESE PCB terminal blocks from Molex are RoHS compliant and UL recognized for use in the U.S. and Canada. These blocks are compatible with Molex Beau® and other industry standard terminal blocks.

ESE terminal blocks provide economic benefits and enhance Molex's existing Eurostyle terminal block offering. For additional specifications on Eurostyle ESE Terminal Blocks, visit our website: www.molex.com/product/ESEtermblocks.html.





Features and Benefits

- Fixed or pluggable product styles allow for maximum design flexibility
- Three different wire entry angles on fixed mount terminal blocks allow you to choose the best fit for your application
- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Surface Mount Compatible headers available in 5.00 and 5.08mm (.197 and .200") withstand reflow soldering temperatures, eliminating the need for a secondary wave soldering process
- Gold plating available on any part offers increased connectivity and durability in low power applications
- Captive screws in all terminal blocks mean that screws will not back out of housing or mounting ends

Applications

- Power Distribution
- Factory and Process Automation
- HVAC
- Security Systems
- Elevators
- Irrigation Systems
- Measurement and Control Systems

ESE PCB TERMINAL BLOCK SPECIFICATIONS

Reference Information
Packaging: Box
UL File No.: E48521
Flammability: UL 94 V-0

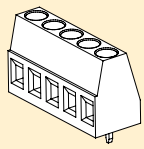
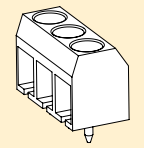
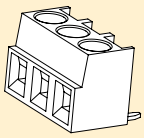
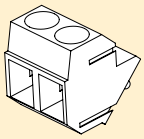
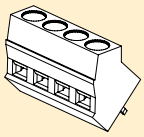
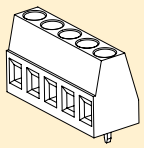
Electrical
Voltage: 300V
Insulation Resistance: 500 Megohms min.
Withstanding Voltage: 4000V DC

Mechanical
Operating Temperature:
Standard Plugs and Headers
-40 to +105°C
Surface Mount Compatible Headers
-40 to +140°C

Physical
Housing:
Standard Plugs and Headers — Polyamide (Nylon) 6/6
Surface Mount Compatible Header — Polyamide (Nylon) 4/6
Housing Color: Black (Green or other colors optional)
Screw: Steel M2, M2.5, M3
Contact Plating: Tin (Gold optional)
Imprinting:
Standard – 1,2,3
Reverse – 3,2,1

5.00 and 5.08mm (.197 and .200") Pitch ESE Fixed Mount Terminal Blocks

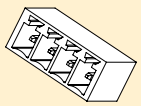
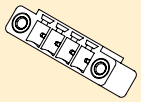
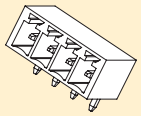
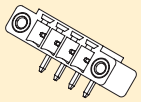
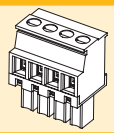
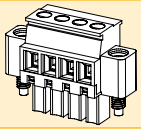
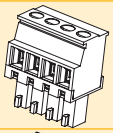
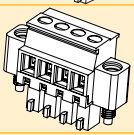
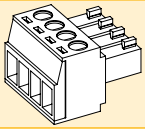
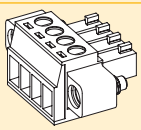


	Pitch	Description	Current	Wire Range	Circuits	Order No.	
						ESE	Beau®
	5.00mm (.197")	Vertical with Rising Cage Clamp	15.0A	14 to 22 AWG	2 to 24	39543-30XX	39890-01XX
		Vertical with Pressure Clamp	10.0A	14 to 24 AWG		39543-00XX	39850-16XX
		Vertical with Pressure Clamp, Low Profile		14 to 22 AWG		39543-06XX	N/A
		Horizontal, Assembled to length		16 to 24 AWG		39543-31XX	39890-02XX/ 39850-31XX
		Horizontal, Modular*			2 or 3	39543-45XX	N/A
		45° Wire Entry with Pressure Clamp, Assembled to Length		14 to 24 AWG	2 to 24	39543-02XX	39850-01XX
		45° Wire Entry with Pressure Clamp, Modular*			2 or 3	39543-05XX	N/A
		45° Wire Entry with Rising Cage Clamp		14 to 22 AWG	2 to 24	39543-43XX	N/A
	5.08mm (.200")	Vertical with Rising Cage Clamp	15.0A	12 to 22 AWG	2 to 24	39544-30XX	39880-01XX

Replace XX with circuit sizes 02 to 24.
* Modular terminal blocks available in 2 or 3 circuits. Blocks can be stacked together to create larger circuit sizes.

3.50mm (.138") Pitch ESE Pluggable Terminal Blocks

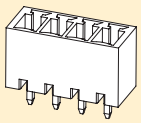
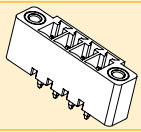
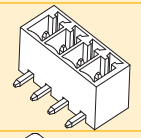
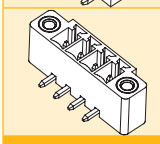
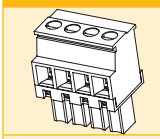
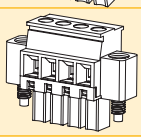
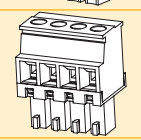
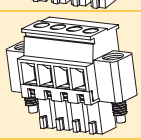
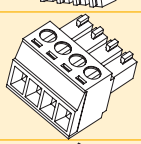
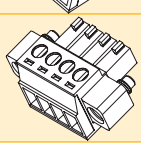


	Pitch	Description	Current	Wire Range	Circuits	Order No.	
						ESE	Beau®
PCB Headers							
	3.50mm (.138")	Vertical	8.0A	N/A	2 to 20	39501-10XX	39353-00XX
		Vertical with Threaded Retention Inserts				39505-10XX	39354-00XX
		Horizontal				39502-10XX	39355-00XX
		Horizontal with Threaded Retention Inserts				39506-10XX	39356-00XX
Plugs							
	3.50mm (.138")	Vertical, Rear Wire Entry	8.0A	16 to 24 AWG	2 to 20	39503-20XX	N/A
		Vertical with Retention Screws, Rear Wire Entry				39507-20XX	
		Vertical, Front Wire Entry				39503-30XX	
		Vertical with Retention Screws, Front Wire Entry				39507-30XX	
		Horizontal				39500-00XX	39351-00XX
		Horizontal with Retention Screws		16 to 30 AWG		39504-00XX	39352-00XX

Replace XX with circuit sizes 02 to 20.

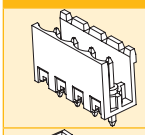
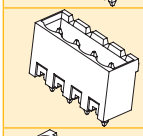
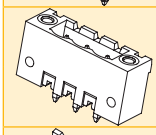
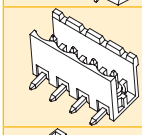
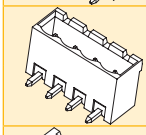
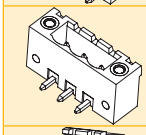
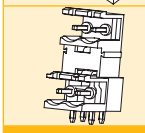
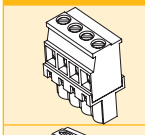
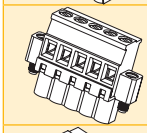
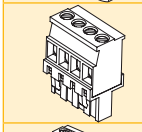
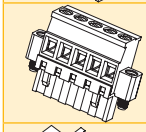
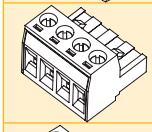
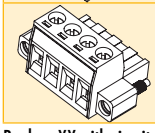
3.81mm (.150") Pitch ESE Pluggable Terminal Blocks



	Pitch	Description	Current	Wire Range	Circuits	Order No.	
						ESE	Beau®
PCB Headers							
	3.81mm (.150")	Vertical	8.0A	N/A	2 to 20	39511-10XX	39900-05XX
		Vertical with Threaded Retention Inserts				39515-10XX	39900-11XX
		Horizontal				39512-10XX	39900-07XX
		Horizontal with Threaded Retention Inserts				39516-10XX	39900-12XX
Plugs							
	3.81mm (.150")	Vertical, Rear Wire Entry	8.0A	16 to 30 AWG	2 to 20	39513-20XX	39900-02XX
		Vertical with Retention Screws, Rear Wire Entry				39517-20XX	39900-17XX
		Vertical, Front Wire Entry				39513-30XX	39900-03XX
		Vertical with Retention Screws, Front Wire Entry				39517-30XX	39900-18XX
		Horizontal		16 to 24 AWG		39510-00XX	39905-01XX
		Horizontal with Retention Screws				39514-00XX	39905-10XX

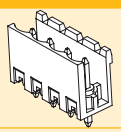
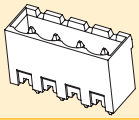
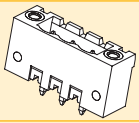
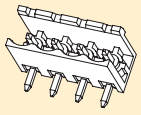
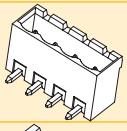
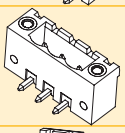
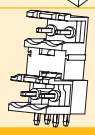
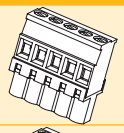
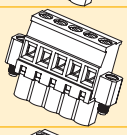
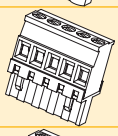
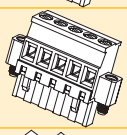
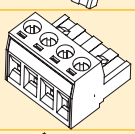
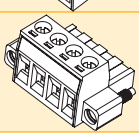
Replace XX with circuit sizes 02 to 20.

5.00mm (.197") Pitch ESE Pluggable Terminal Blocks

	Pitch	Description	Current	Wire Range	Circuits	Order No.	
						ESE	Beau®
PCB Headers							
	5.00mm (.197")	Vertical, Open Ends	15.0A	N/A	2 to 24	39521-00XX	39870-04XX
		Vertical, Closed Ends				39521-10XX	39870-05XX
		Vertical, Surface Mount Compatible				39521-40XX	39870-13XX
		Vertical with Threaded Retention Inserts				39525-00XX	39870-11XX
		Vertical with Threaded Retention Inserts, Surface Mount Compatible				39525-40XX	N/A
		Horizontal, Open Ends				39522-00XX	39870-06XX
		Horizontal, Closed Ends				39522-10XX	39870-07XX
		Horizontal, Surface Mount Compatible				39522-40XX	39870-14XX
		Horizontal with Threaded Retention Inserts				39526-00XX	39870-12XX
		Horizontal with Threaded Retention Inserts, Surface Mount Compatible				39526-40XX	N/A
		Dual Level, Open Ends			4 to 48	39528-00XX*	
Plugs							
	5.00mm (.197")	Vertical, Rear Wire Entry	15.0A	12 to 26 AWG	2 to 24	39523-20XX	39870-02XX
		Vertical with Retention Screws, Rear Wire Entry	10.0A			39527-20XX	N/A
		Vertical, Front Wire Entry	15.0A			39523-30XX	39870-03XX
		Vertical with Retention Screws, Front Wire Entry	10.0A			39527-30XX	N/A
		Horizontal	15.0A			39520-00XX	39870-01XX
		Horizontal with Retention Screws				39524-00XX	N/A

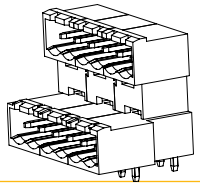
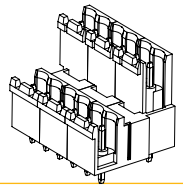
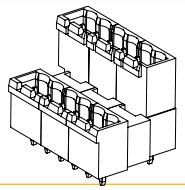
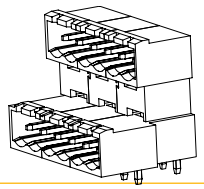
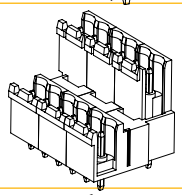
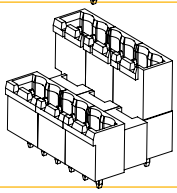
Replace XX with circuit sizes 02 to 24.
*Dual level PCB header available in circuit sizes 04 to 48.

5.08mm (.200") Pitch ESE Pluggable Terminal Blocks

	Pitch	Description	Current	Wire Range	Circuits	Order No.	
						ESE	Beau®
PCB Headers							
	5.08mm (.200")	Vertical, Open Ends	15.0A	N/A	2 to 24	39531-00XX	39860-04XX
		Vertical, Closed Ends				39531-10XX	39860-05XX
		Vertical, Surface Mount Compatible				39531-40XX	39860-13XX
		Vertical with Threaded Retention Inserts				39535-00XX	39860-11XX
		Vertical with Threaded Retention Inserts, Surface Mount Compatible				39535-40XX	39860-15XX
		Horizontal, Open Ends				39532-00XX	39860-06XX
		Horizontal, Closed Ends				39532-10XX	39860-07XX
		Horizontal, Surface Mount Compatible				39532-40XX	39860-14XX
		Horizontal with Threaded Retention Inserts				39536-00XX	39860-12XX
		Horizontal with Threaded Retention Inserts, Surface Mount Compatible				39536-40XX	39860-16XX
		Dual Level, Open Ends			4 to 48	39538-00XX*	39860-08XX
Plugs							
	5.08mm (.200")	Vertical, Rear Wire Entry	15.0A	12 to 26 AWG	2 to 24	39533-20XX	39860-02XX
		Vertical with Retention Screws, Rear Wire Entry	10.0A			39537-20XX	N/A
		Vertical, Front Wire Entry	15.0A			39533-30XX	39860-03XX
		Vertical with Retention Screws, Front Wire Entry	10.0A			39537-30XX	N/A
		Horizontal	15.0A			39530-00XX	39860-01XX
		Horizontal Plug with Retention Screw				39534-00XX	39860-10XX

Replace XX with circuit sizes 02 to 24.
*Dual level PCB header available in circuit sizes 04 to 48.

5.00 and 5.08mm (.197 and .200") Pitch ESE Pluggable Terminal Blocks

	Pitch	Description	Current	Wire Range	Circuits	Order No.	
						ESE	Beau™
PCB Headers							
	5.00mm (.197")	Dual Level, Horizontal, Closed Ends	15.0A	N/A	4 to 48	39528-10XX	N/A
		Dual Level, Vertical, Open Ends				39528-20XX	
		Dual Level, Vertical, Closed Ends				39528-30XX	
	5.08mm (.200")	Dual Level, Horizontal, Closed Ends	15.0A	N/A	4 to 48	39538-10XX	39860-09XX
		Dual Level, Vertical, Open Ends				39538-20XX	N/A
		Dual Level, Vertical, Closed Ends				39538-30XX	

Replace XX with circuit sizes 04 to 48.

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Order No. USA-355 Rev 1

Printed in USA/5K/JI/JI/2006.11

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