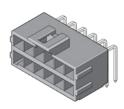
Ultra-Fit Power Connectors

3.50mm Pitch

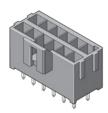
Ultra-Fit Tangless Connectors is a wire-to-board system that offers a 3.50mm pitch, a higher-current rating of 14.0A, and superior design options for flexibility and efficient assembly

Features and Advantages

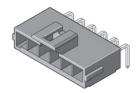
Multiple mechanical keying and color-coded options	Allow same-circuit, multiple connector use with virtually no chance of cross mating. Color coding provides visual indication of the proper mating connector — enabling faster assembly
17% reduction in pitch over similar power connectors	Current-dense design saves PCB space. Allows for smaller packaging without sacrificing current-carrying capabilities
Optional TPA (Terminal Position Assurance) retainer	Guarantees the terminal is fully seated in the housing to reduce terminal back-out. Retains terminal if main retention feature fails
Ultra low mating force terminal	Reduces operator fatigue and improves assembly compliance for high-circuit applications
Positive-lock housing with anti-snag design	Ensures mated connector assemblies will not accidentally disengage. Provides an audible click while mating. Protects latch from damage due to wire snags
Fully isolated terminals	Protect against potential damage of the header and receptacle terminals during handling and mating
Terminal interface with six independent points of contact (split-box terminal design)	Offers redundant, secondary current paths for long- term performance and reliability



Dual-Row Right-Angle Header 172316 Series



Dual-Row Vertical Header 172298 and 172299 Series



Single-Row Right-Angle Header 172310 Series



Single-Row Vertical Header 172286 and 172287 Series

molex

















Ultra-Fit Tangless Connector

Ultra-Fit Power Connectors

3.50mm Pitch

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Applications

Consumer / Home Appliance

Washers Refrigerators

Telecommunications/Networking

Hubs Servers

Transportation

Infotainment Interior

Lighting

Ballasts

Home Lighting Fixtures

Aerospace and Defense

C4ISR Industrial

Food and Beverage Assembly Line Equipment

Medical

Patient Care Equipment

Healthcare IT







Specifications

REFERENCE INFORMATION

Packaging: Bag, Tray, Reel UL File No.: E29179 CSA File No.: LR19980

Mates With:

Series: 172258 Series: 172298 Series: 172256 Series: 172286

Series: 172253 Series: 172258, 172256 Series: 172264 Series: 172258, 172256

Terminal Used: Series: 172253 Designed In: Millimeters

RoHS: Yes Halogen Free: Yes Glow Wire Capable: Yes

ELECTRICAL

Voltage (max.): 600V AC (RMS) or DC

Current (max.): 14.0A

Contact Resistance (max.): 7 milliohms Dielectric Withstanding Voltage: 1800 VAC Insulation Resistance (min.): 1000 Megohms

MECHANICAL

Pitch: 3.50mm

Contact Insertion Force (max.): 14.7 N (3.3 lbf) Contact Retention to Housing: 24.5N Insertion Force to PCB: 35N MAX Mating Force: 4.5N MAX Un-mating Force: 7 milliohms

Durability (min.): Mate connectors up to 25 cycles at a maximum rate of 10 cycles per minute

PHYSICAL

ousing: 94 V-/Glow Wire Combo Contact: High copper alloy Plating: Tin over nickel overall PCB Thickness: Standard 1.57mm Operating Temperature: -40 to +105°C

Ordering Information

Series No.	Component	Orientation	Rows	Termination Style
<u>172253</u>	Crimp Terminal			
<u>172256</u>	Decentagle Housing	Receptacle Housing	Single	
<u>172258</u>	- Receptacle Housing		Dual	
<u>172286</u>	- Vertical - Header		Cinglo	Kinked Pin
<u>172287</u>		Vertical -	Single	Solder Clip
<u>172298</u>			Dual	Kinked Pin
172299		Duai	Solder Clip	
<u>172310</u>	Diale Anala	Single	Through Holo	
<u>172316</u>		Right-Angle	Dual	Dual Through Hole

TPA

Series	Description	Circuit	Color
<u>172264</u>	TPA	2 to 8	Black and Natural

www.molex.com/link/ultrafit.html