



EXTreme Ten60 Power Connectors

Designing with Leading-Edge Technology

The need for high-current power interconnect solutions in increasingly smaller spaces continues to rise rapidly. Solving this power equation on new architectures and system platforms is a major focus for Molex product development teams. The EXTreme Ten60 High-Power Connectors offer standard modular components to meet power requirements while taking up minimal space.

EXTreme Ten60 Connectors offer power terminal flexibility in low power (30.0A) and high power (60.0A) for both AC and DC pitches. For designers with higher-layer boards, EXTreme Ten60 connectors may achieve over 95.0A with our high-power terminal, depending on the configuration. Molex's board-to-board and wire-to-board solutions are designed for better airflow and higher current density.



FEATURE AND ADVANTAGES

Configurable with dovetail design

- Allows for excellent design flexibility

Low-profile design (10.00mm)

- Enhances system airflow for optimum cooling

Top or side guides

- Help gather connectors for a smoother entry gradient; allows for alignment to help prevent damage and easy mating; nominal gatherability of 1.00mm+ in all directions

Press fit or solder tail options

- Allows multiple styles of PCB mounting to better suit different designs; solder tail available in 2.84 and 3.61mm

EXTREME TEN60 HIGH-POWER CONNECTORS

Miniaturized, robust and reliable

- High-density signal or standard 2.54mm pitches
- Board-to-board, board-to-panel, wire-to-board
- Side or top guides
- 29.00mm mated depth
- Flexible PCB thicknesses from 1.60mm+ and greater

MARKETS

- Data Communications
- Telecommunications
- Consumer Electronics
- Electric Vehicles (EVs)

KEY APPLICATIONS

- High-speed servers
- EV charging stations
- High-voltage electric consumer tools
- LED farm lighting devices
- High-lumen LED lights
- Warehouse robotics
- Removable power supplies

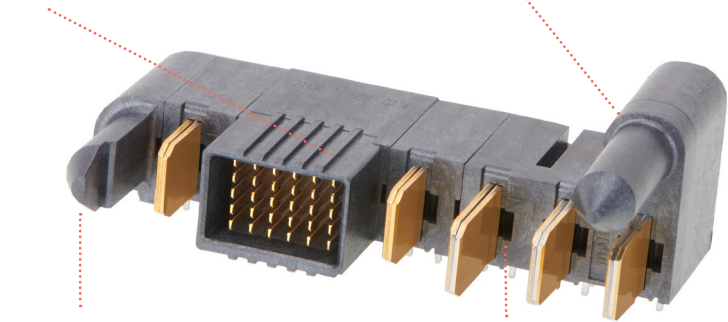
EXTreme Ten60 Power Connectors

Signal Options

High Density or
Standard 2.54mm Pitch

Guides

Top Guide Options



Guides

Side Guide
Options

Blade Options

First Mate Last Break
8.00, 10.00 and 12.00mm

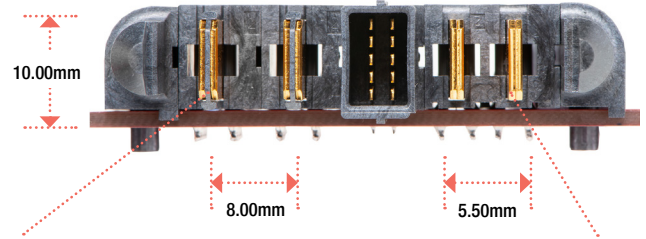
PCB Tails

Solder Tail or
Press-fit

Most Flexible Design Options

1. Current Mix-Design Flexibility

Molex supports both AC and DC applications with multiple pitch ranges for each current type.



2. Split-Power Space Savings

Molex's split-power designs allow designers low-power options with currents up to 30.0A per blade


3. Single-Blade Power Density

Molex's single-blade design offers high-power options with current up to 95.0A

EXTreme Ten60 High-Power Connector Portfolio for Board-to-Board Solutions

	Standard Terminals	Split Power Terminals
Plugs	 Series 46437	 Series 171088
Right-Angle Receptacles	 Series 46436	 Series 171090
Vertical Receptacles	 Series 46562	 Series 171089

EXTreme Ten60 High-Power Connector Portfolio for Wire-to-Board Solutions

	Wire-to-Board	Panel-to-Board
PCB Plugs (Power Only)	 Series 172452	 Series 172457
Wire Receptacles (Power Only)	 Series 172509	 Series 172511
PCB Plugs (Power & Signal Hybrid)	 Series 172453	 Series 172458
Wire Receptacles (Power and Signal Hybrid)	 Series 172510	 Series 172512

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