

## Applications



Motor Systems



Electric Motors



Industrial Equipment



1 Touch Locking



Waterproof



Compact

**Discover Hirose's MT50WA Series waterproof connector with a power and signal hybrid design, engineered for compact motors requiring space-saving and reliable performance.**

Stay ahead of the curve with the MT50WA Series Connector. For deeper insights, visit and subscribe to our YouTube channel. Hirose Electric - Connecting the Future. The MT50WA Series is perfect for compact motor systems, offering efficient connectivity for applications such as electric motors and other industrial equipment.

### KEY BENEFITS OF THE MT50WA SERIES INCLUDE:

- A lever lock mechanism that simplifies operation and prevents waterproofing failures with a secure push-to-lock system.
- Combines power, signal, and brake connections into a single plug, saving valuable space and reducing assembly complexity.
- Provides vibration resistance for enhanced connection stability in demanding motor environments.
- IP67-rated when mated, ensuring waterproof performance and durability in harsh conditions.
- Safety-compliant with UL, CSA, and TÜV certifications, meeting stringent industry standards.

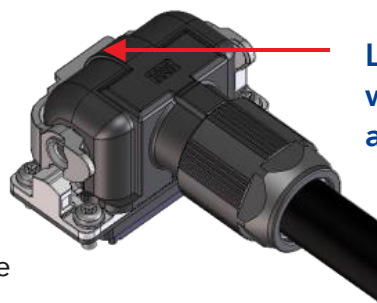
## Design Concept

### Existing Connector Issues

1. Screw lock makes wiring difficult for operator
2. Motor has power, signal and brake connectors, resulting in connectors taking up a lot of space.
3. Waterproof failure from workers forgetting to tighten screws

### MT50WA Series

1. Lever lock enhances wiring operation
2. Power/signal/brake hybrid connector saves space
3. Waterproof mating simply by pushing lever



**Lever lock prevents waterproofing failure and is easily attached.**

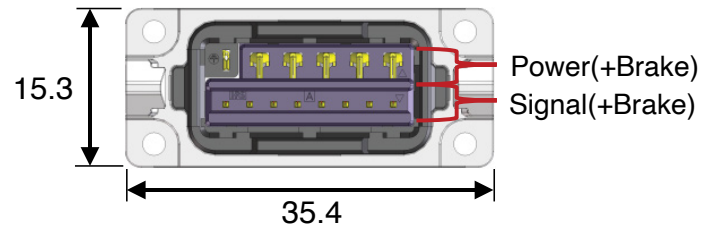
**Power/Signal Hybrid Saves Space**

**CLICK HERE**  
FOR MORE INFORMATION

**CLICK HERE TO ORDER**  
SAMPLE NUMBER:  
US-MT50WASAMPLE-24

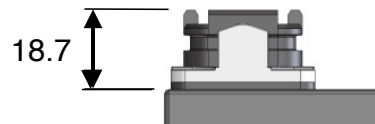
## Space-Saving by Combining Power, Signal & Brake

### PCB Mounting Space



PCB Mounting Space **538.5**mm<sup>2</sup>

### Height Reduction



## Specifications

CHARACTERISTICS		
Rated Current	Power: 4A/pin (22 AWG) 7A/pin (18 AWG)	Signal: 1A/pin
Rated Voltage	Power: 500V AC	Signal: 100V AC
Operating Temperature	-40 to +105°C*	
Contact Resistance	Power and Signal Contact: 10mΩ Max.	
Withstanding Voltage	Between Power Contacts: 1500V AC for 1 min. Between Signal Contacts: 500V AC for 1 min.	
Insulation Resistance	1000MΩ Min. (500V DC)	
Mating Durability	200 times	

- Applicable Cable: 18-22 AWG (Power), 24-26 AWG (Signal) \* Includes the temperature rise by current flow



For additional information please go to  
[www.hirose.com/product/series/MT](http://www.hirose.com/product/series/MT)

Specifications herein are subject to change without notice.  
 Contact Hirose for latest specifications, drawings, or availabilities.

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