

## One Touch Lever Lock: Waterproof Mating Made Easy



### Features

- 1 Lever lock delivers easy operation
- 2 Power/signal hybrid contributes to space-saving in motors
- 3 Provides vibration resistance needed in motors
- 4 IP67 waterproof (when mated)
- 5 Wide variety to suit multiple application needs
- 6 Safety Standard Compliant (UL, CSA, TÜV)



1 Touch Locking



Waterproof



Compact

**Patented**

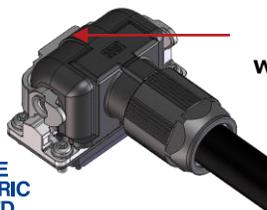
## Design Concept

### Existing Connector Issues

1. Screw lock makes wiring difficult for operator
2. A motor has power, signal and brake connectors, resulting in connectors taking up valuable 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 the lever

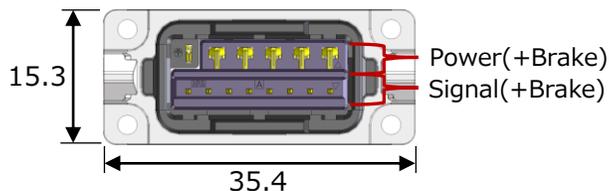


Lever lock prevents waterproofing failure and is easily attached.

Power/Signal Hybrid Saves Space

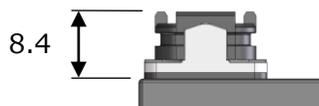
## Space-saving by Combining Power, Signal and Brake

### PCB Mounting Space



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

### Height Reduction



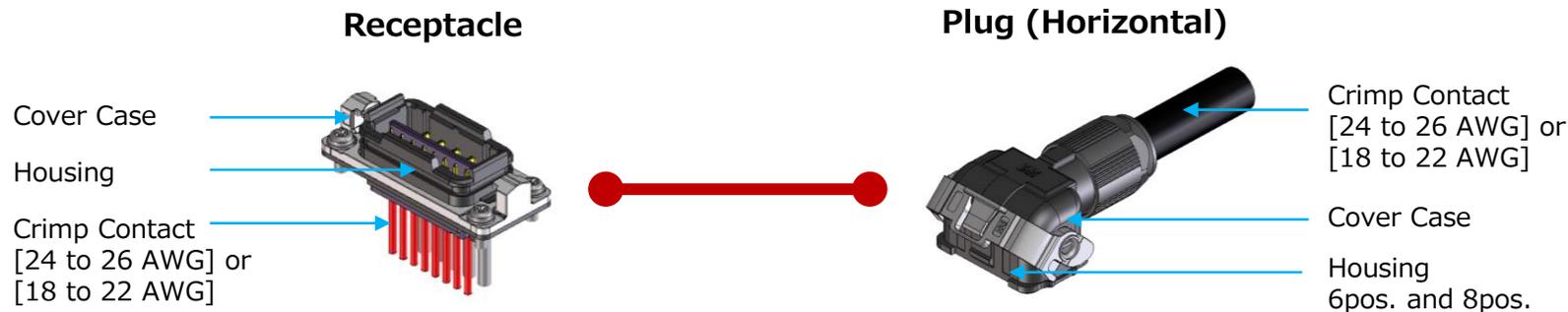
## Specifications

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	

\* Includes the temperature rise by current flow

- Applicable Cable: 18-22 AWG (Power), 24-26 AWG (Signal)

### Functional Diagram



### Product Variations

Part No. HRS No.	Connector Type	Specification
MT50WA-8A/6BP-FL CL0248-0029-0-00	Cover Case	Metal Flange
MT50W-8A/6BP-C(11) CL0248-0007-6-11	Housing	6, 8pos., Male crimp case
MT50A-2426PCFA CL0248-0003-5-00	Male Crimp Contact	Wire Size: 24 to 26 AWG Outer Diameter Max.: $\varnothing$ 1.49mm
MT50B-1822PCFA CL0248-0005-0-00	Male Crimp Contact	Wire Size: 18 to 22 AWG Outer Diameter Max.: $\varnothing$ 2.1mm

Part No. HRS No.	Connector Type	Specification
MT50WA-8A/6BS-CVL(9.0) CL0248-0027-0-00	Cover Case	Metal Lever
MT50W-6BS-C(11) CL0248-0009-1-11	Housing	6pos., Power crimp case
MT50W-8AS-C(11) CL0248-0008-9-11	Housing	8pos., Signal crimp case
MT50A-2426SCFA CL0248-0004-8-00	Female Crimp Contact	Wire Size: 24 to 26 AWG Outer Diameter Max.: $\varnothing$ 1.49mm
MT50B-1822SCFA CL0248-0006-3-00	Female Crimp Contact	Wire Size: 18 to 22 AWG Outer Diameter Max.: $\varnothing$ 2.1mm

### Crimp Tool

Crimp Contact	Applicator	Hand Tool
MT50A-2426PCFA	AP105-MT50A-2426 CL0901-2054-0-00	HT802/MT50A-2426 CL0250-2025-0-00
MT50B-1822PCFA	AP105-MT50B-1822 CL0901-2053-8-00	HT802/MT50B-1822P CL0250-2026-0-00

Crimp Contact	Applicator	Hand Tool
MT50A-2426SCFA	AP105-MT50A-2426 CL0901-2054-0-00	HT802/MT50A-2426 CL0250-2025-0-00
MT50B-1822SCFA	AP105-MT50B-1822 CL0901-2053-8-00	HT802/MT50B-1822S CL0250-2027-0-00