

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)



Patented

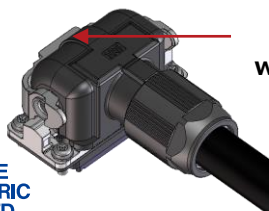
Design Concept

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

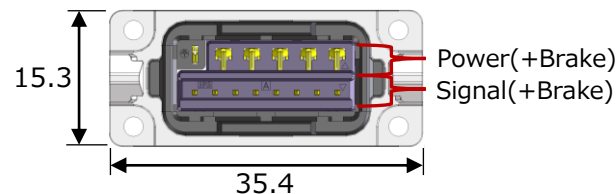


Lever lock prevents waterproofing failure and is easily attached.

Power/Signal Hybrid Saves Space

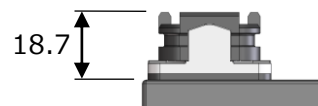
Space-saving by Combining Power, Signal and Brake

PCB Mounting Space



PCB Mounting Space **538.5mm²**

Height Reduction



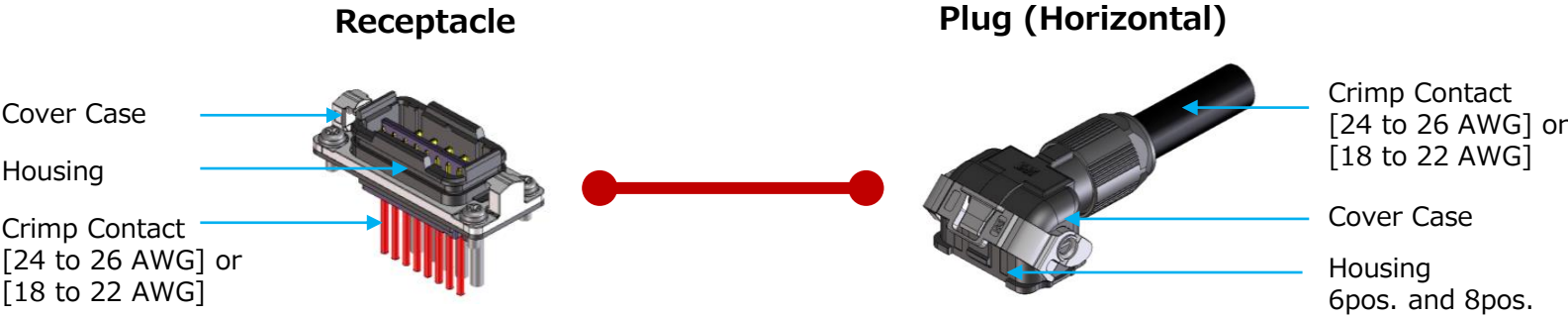
Specifications

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℃*	
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.: ø1.49mm
MT50B-1822PCFA CL0248-0005-0-00	Male Crimp Contact	Wire Size: 18 to 22 AWG Outer Diameter Max.: ø2.1mm

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.: ø1.49mm
MT50B-1822SCFA CL0248-0006-3-00	Female Crimp Contact	Wire Size: 18 to 22 AWG Outer Diameter Max.: ø2.1mm

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 *Under development: Launched in April 2024

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Hirose Electric:](#)

[MT50W-10CS-CVL\(7.1\)](#) [MT50W-4BS-CVL\(6.0\)](#) [MT50W-10AP-FL](#)