

Shielded RJ45 Float Unit

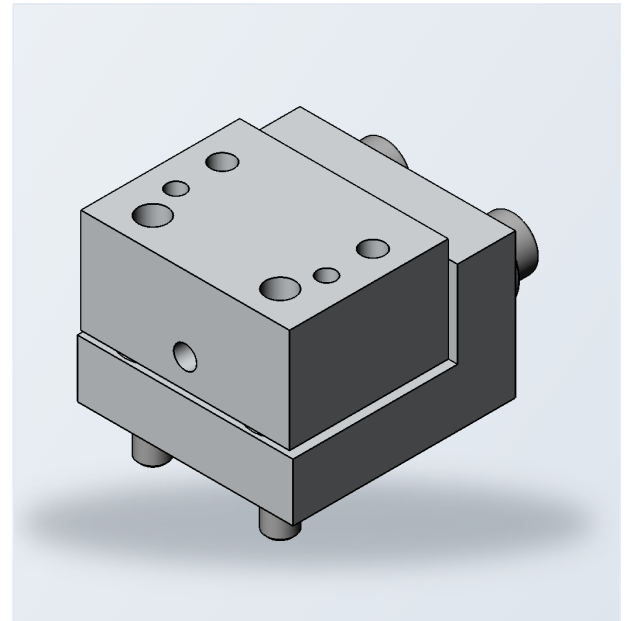
MA092003

The **MA092003** float unit provides a spring-loaded floating mount for a Bluelec shielded RJ45 (8P8C) test connector in the test fixture. It compensates for possible misalignment between the test-system mechanics and the DUT socket, enabling smooth, low-stress insertion of the test plug.

The test connector is mounted on the floating part and positioned by dowel pins. The fixed part is bolted to the test mechanics. By default, the floating part is centered at position '0' on all axes; Z-axis displacement enables movement in the X and Y directions.

Designed for automated and semi-automated production test fixtures.

! During installation, support the floating part with a 0.5 mm plate to prevent it from bending downward.



SPECIFICATIONS

Displacement, Z max	+0.0 / -0.5 mm
Displacement, X max @ Z max	±0.3 mm
Displacement, Y max @ Z max	±0.3 mm
Spring force F @ Z ₀	~10 N
Spring force F @ Z max	~14.5 N
Operating temperature	0 – 60 °C
Storage temperature	-20 ... +70 °C
Relative humidity	15 – 95 % non-condensing
Compliance	RoHS

MOUNTING

Fastening, bottom side	2× M2.5 hex socket screw
Locating	2× Ø2 mm (Ø0.08 in) dowel pin (m6)
Thread depth in mechanics	M2.5, min. 4 mm (0.16 in)
Dowel hole depth in mechanics	Ø2 mm (Ø0.08 in), min. 3 mm (0.12 in)

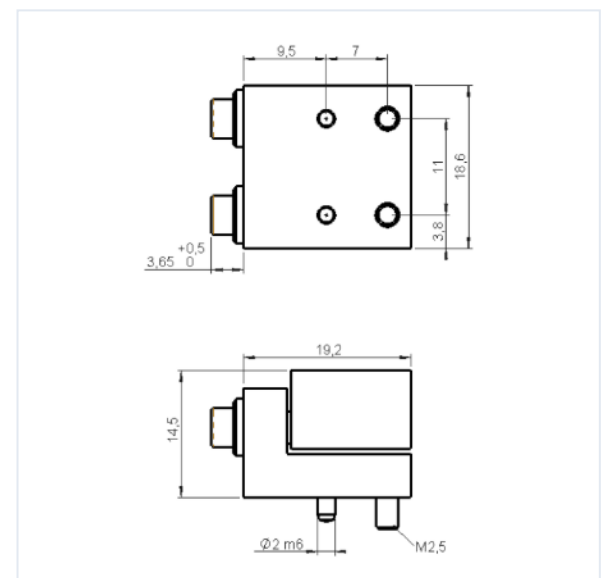
COMPATIBLE TEST CONNECTORS

MA002667 Shielded RJ45 (8P8C) Test Connector

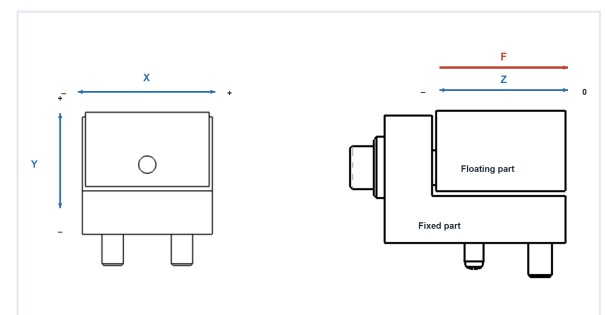
Sold separately from the test connector.

DIMENSIONS

mm



OPERATING PRINCIPLE



3D CAD models available on request via sales@bluelec.com

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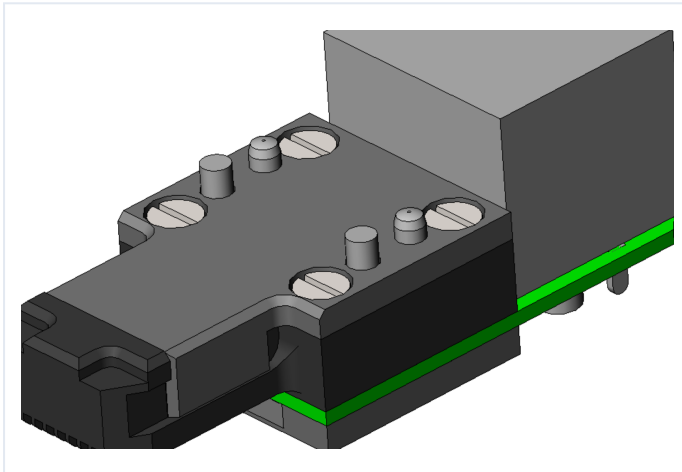
■ CONNECTOR INSTALLATION

The float unit accepts the shielded RJ45 (8P8C) test connector MA002667. The mounting screws supplied with the test connector are installed from the opposite side and the dowel pins repositioned before mounting, as shown below.

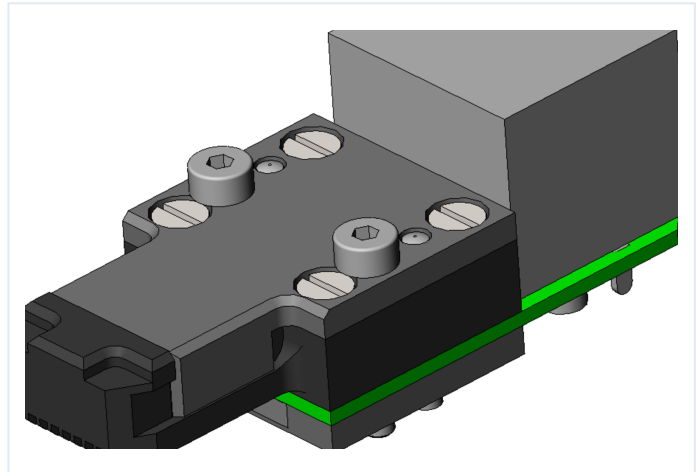
MA002667 REVERSED SCREW CONFIGURATION

- i** When using the float with Test Connector **MA002667**, the mounting screws must be installed from the opposite side of the default configuration. The default countersunk screws can be reused, but **M2×12 mm cap-head screws** are recommended. Press the dowel pins to the opposite side.

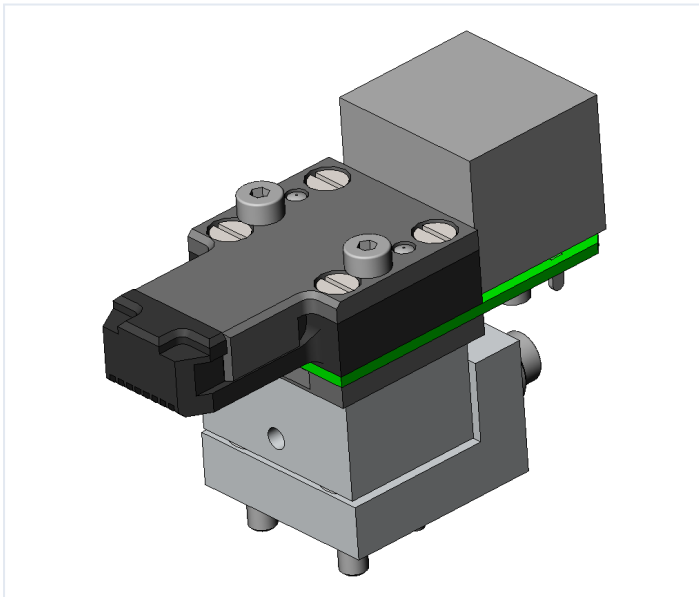
BEFORE — default countersunk screws



AFTER — recommended M2×12 mm cap-head screws



INSTALLED — on mechanics



Once the screws and dowel pins are repositioned, the test connector can be mounted to the float unit and the assembly bolted to the test mechanics.

The BEFORE and AFTER views show the mounting-screw area of the float unit, seen from the top face.