High Current Probe

Butt Contact BC Series

Flanged bushing made from PEEK

By using an insulated flanged bushing, the Butt Contact has a secured insulation from the facility.

Spring receiving washer

It prevents some wear particles from the flanged bushing.

What is Butt contact?

A Butt Contact is a high-current probe that can energized electronic devices by simply pressing the coil spring to have contact with the inspection module in the manufacturing of automobile parts, power semi-conductor modules and other electronic devices.



Canted coil spring

The electrical contact that ensures stable energization of electronic devices.

Advantages of the Butt Contact

-It reduces defective products by using a stable energizing contact.

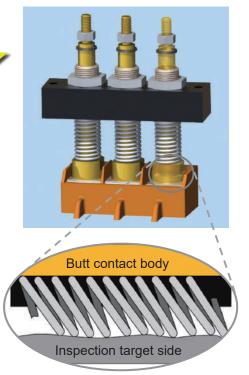
High contact reliability is achieved by ensuring that the coil spring is in contact with the touching surface therefore a stable contact is achieved.

-It reduces scratches to the products

The canted coil spring makes a soft contact with the inspection target with multiple points of contact.

-It keeps running costs down

It has passed 1 million cycles in our in-house endurance test. Since it is highly durable, it reduces the frequency of maintenance and it last longer than other existing probes.



Each coil spring contact follows the roughness of the target surface.

product line-up







Model	Rated Current	Tip diameter	Pressurizing spring Force	Screw size
BC50-8	50A	φ8 mm	5N - 9N	M3
BC75-12	75A	φ12 mm	16N - 28N	M4
BC140-17	140A	φ16.5 mm	16N - 28N	M5

Application examples

- For shipment inspection of power semiconductor modules and smart meters
- For manufacturing inspection process for automobile parts.
- Used for power supply connection for Auto Guided Vehicles (AGV).
- For operation check in the production process of inverters, etc.





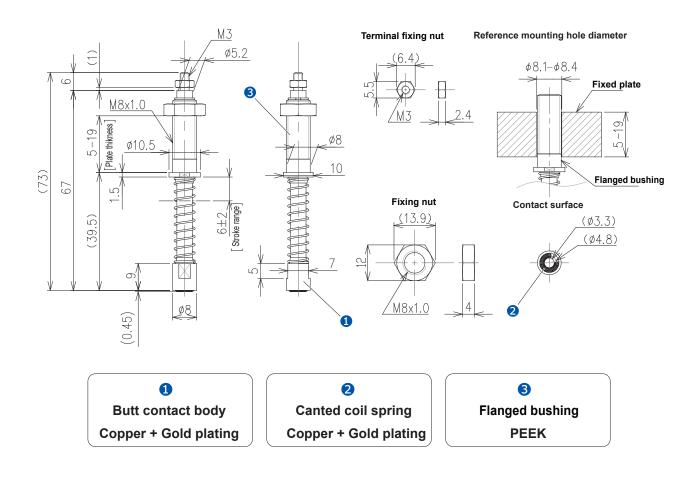




Specifications

Usable temperature : -20 to +140 °C * Including its own temperature rise value when energized. Continuous current : 50A Estimated durability : 100,000 to 1,000,000 cycles

External dimensions

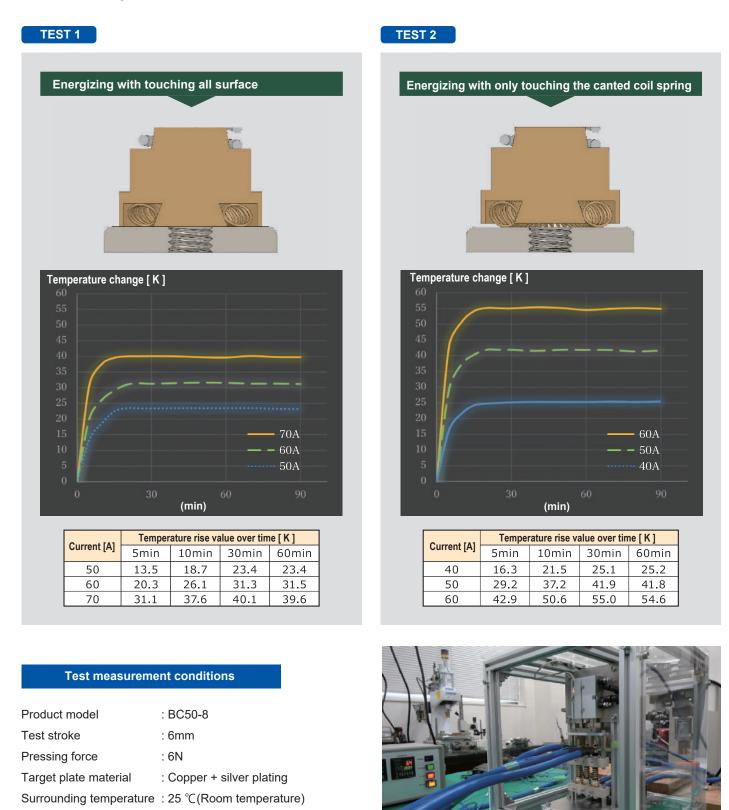


Technical Info BC50-8

Current energization test result

Globetech shows the results of the rising of temperature by conducting an in-house energization test using the connection method below.

Please use it for your reference for current selection.





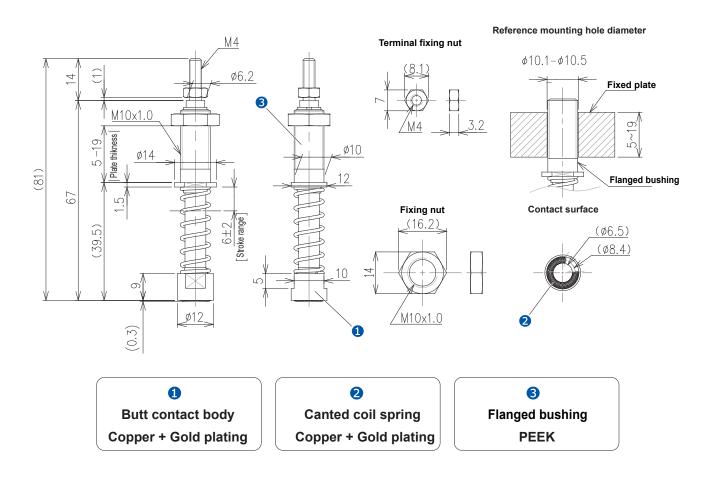




Specifications

Usable temperature : -20 to +140 °C * Including its own temperature rise value when energized. Continuous current : 75A Estimated durability : 100,000 to 1,000,000 cycles

External dimensions

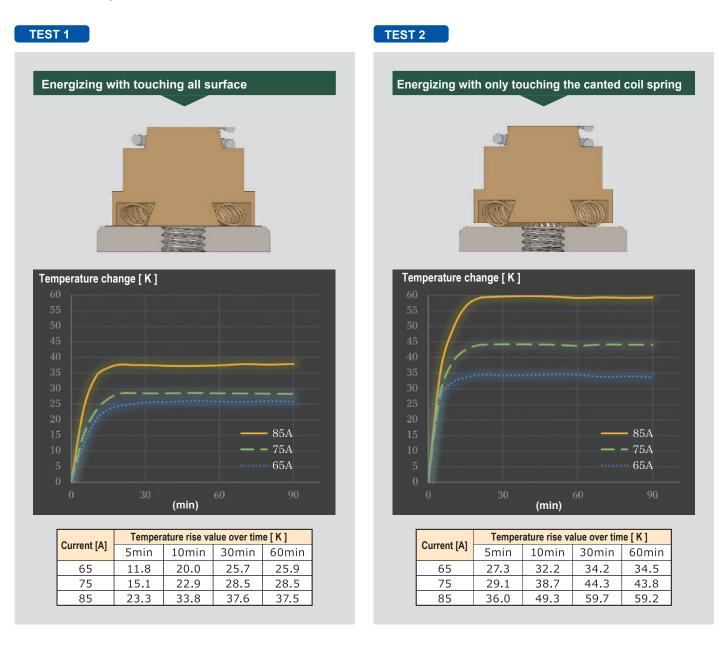


Technical Info BC75-12

Current energization test result

Globetech shows the results of the rising of temperature by conducting an in-house energization test using the connection method below.

Please use it for your reference for current selection.



Test measurement conditions

Product model: BC75-12Test stroke: 6mmPressing force: 22NTarget plate material: Copper + silver platingSurrounding temperature: 25 °C (Room temperature)		
Pressing force: 22NTarget plate material: Copper + silver plating	Product model	: BC75-12
Target plate material : Copper + silver plating	Test stroke	: 6mm
	Pressing force	: 22N
Surrounding temperature : 25 $^{\circ}$ (Room temperature)	Target plate material	: Copper + silver plating
	Surrounding temperature	: 25 °C(Room temperature)



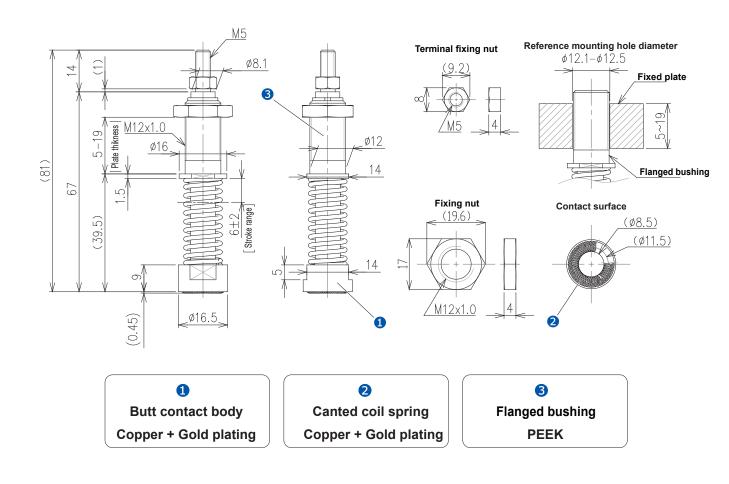




Specifications

Usable temperature : -20 to +140°C * Including its own temperature rise value when energized. Continuous current : 140A Estimated durability : 100,000 to 1,000,000 cycles

External dimensions

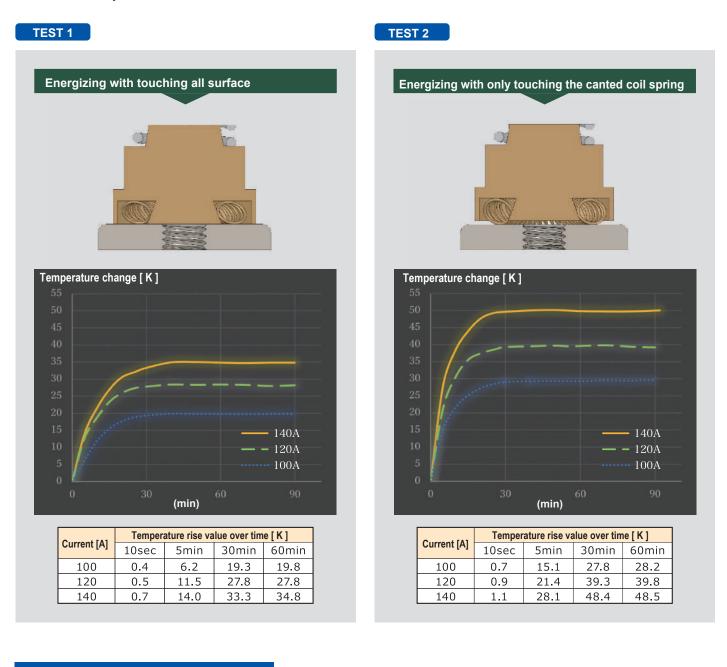


Technical Info BC140-17

Current energization test result

Globetech shows the results of the rising of temperature by conducting an in-house energization test using the connection method below.

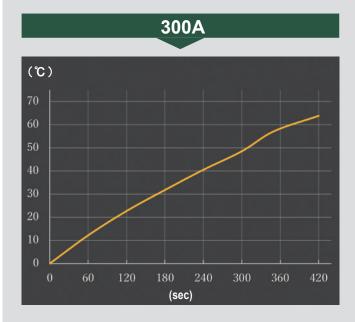
Please use it for your reference for current selection.



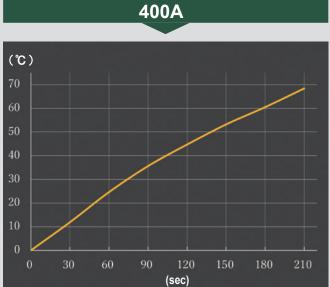
Test measurement conditions

Product model	: BC140-17
Test stroke	: 6mm
Pressing force	: 22N
Target plate material	: Copper + silver plating
Surrounding temperature	: 25 ℃(Room temperature)

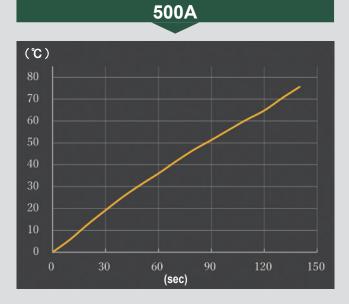


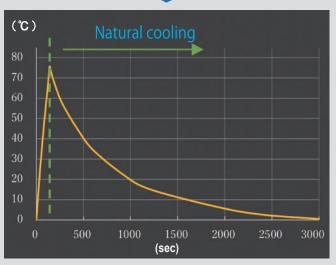


This test result based on TEST1which energize with touching all surface.

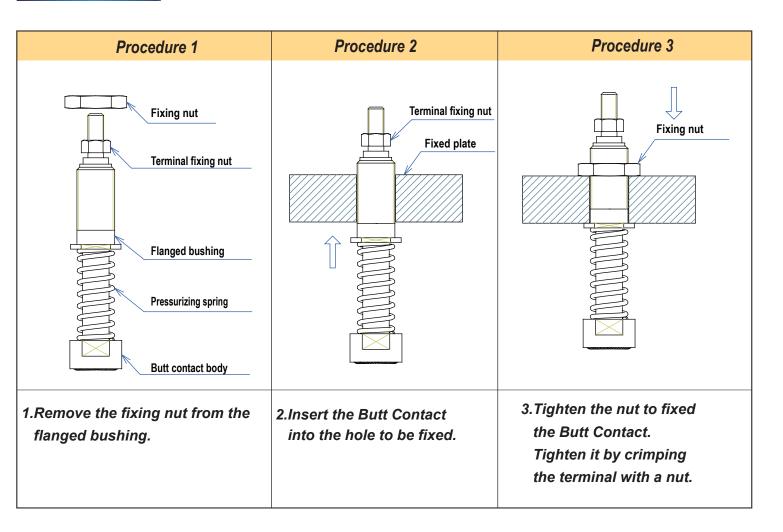








How to mount



GLOBETECH

GLOBETECH Inc.

1-13-21 Hinodai Hino-shi, Tokyo, Japan 191-0003 TEL +81-42-584-1020 / FAX +81-42-584-1030 URL : https://www.globetech.jp/

NOTICE:

- 1. All test condition values and results are based on our in-house testing facility. The same exact performance and results are not guaranteed.
- 2. The durability of Butt Contact is affected by the type of material, shape, working environment, selected current and cable used in energization.
- 3. The arching and heating of the coil spring might happen due to a normal wear and tear. Kindly check if there are no visible arching or damages on the coil spring before using.
- 4. Specifications are subject to change without prior notice.