TECHNICAL INFORMATION FOR BUSBAR PLUGS

You will find useful technical information below but, if you have any questions, please **contact our technical team** for support.

BP2X250 & BP2X400

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The following tables shows the Recognition, Properties and Characteristics of the Termate range of Bus Bar Plugs.

Recognition	Reference / Link	Preferred Name
UL US Recognised Component	US Certificate: **UL-US-E505645**	
UL CA Recognised Component	CA Certificate: **UL-CA-E505645**	
EClass 14.0	27-44-07-90	Power plug connector (unspecified)

Properties	Value / Measure / Unit
Insulator Material	**Glass Reinforced Polyamide 6.6 (PA66)**
Flammability	**UL 94 V-0**
Oxygen Index	**32%**
Glow Wire	**960 °C**
Contact Material	**Silver Plated Copper**
Max. Conductor Temp. in Celsius†	**+105 °C**
Max. Conductor Temp. in Fahrenheit†	**+221 °F**

Properties	Value / Measure / Unit
Insulator Material	**Glass Reinforced Polyamide 6.6 (PA66)**
Flammability	**UL 94 V-0**
Oxygen Index	**50%**
Glow Wire	**960 °C**
Contact Material	**Silver Plated Copper**
Max. Conductor Temp. in Celsius†	**+105 °C**
Max. Conductor Temp. in Fahrenheit†	**+221 °F**

BP2X BUSBAR PLUG - TEST RESULTS

Part Number	3D Model	Current Rating*	Temperature Rise	Fixed Conductor Size (mm)	Tested I_{pk} (No SCPD)	Estimated Protected Short Circuit Rating I_{cc}**
BP2X250-6	BP2X250 STEP file	250 A	29 K	6.0/6.3	30 kA	100 kA
BP2X250-10	BP2X250 STEP file	250 A	29 K	10	30 kA	100 kA
BP2X400-6	BP2X400 STEP file	400 A/630 A	29 K (400 A) or 47 K (630 A)	6.0/6.3	40 kA	100 kA
BP2X400-10	BP2X400 STEP file	400 A/630 A	29 K (400 A) or 47 K (630 A)	10	40 kA	100 kA

The testing of our busbar plugs was carried out inline with IEC 61439-2, Edition 2, 2011. Please contact us for additional technical queries.

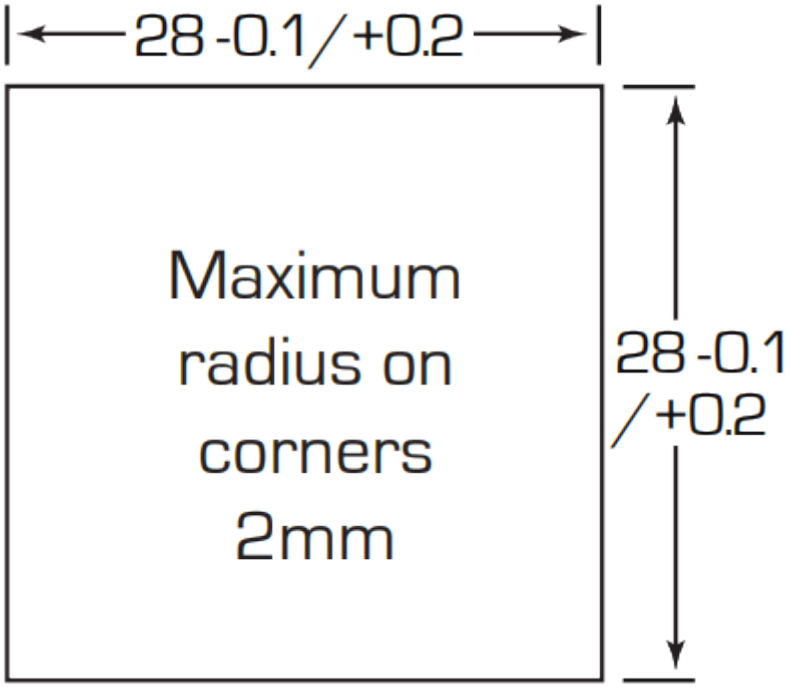
* The unenclosed ratings were tested based on an ambient of 35 °C with test conditions as declared in IEC 61439 with temperature rise as shown.

** This figure is based on an assessment of multiple devices peak let through current. The specific peak let through current for the selected SCPD should be confirmed not to exceed the Ipk declared.

MOUNTING PLATE CUT-OUT DETAIL

Termate recommends that any cutting made after the finish has been applied, should be treated to ensure compliance with IEC 61439-1 section 10.2.2 (resistance to corrosion).

Care should be taken to ensure that the mounting plate exhibits sufficient mechanical strength consistent with the Busbar Plugs being inserted and withdrawn multiple times. Experience, judgement and good engineering practice should always be applied.



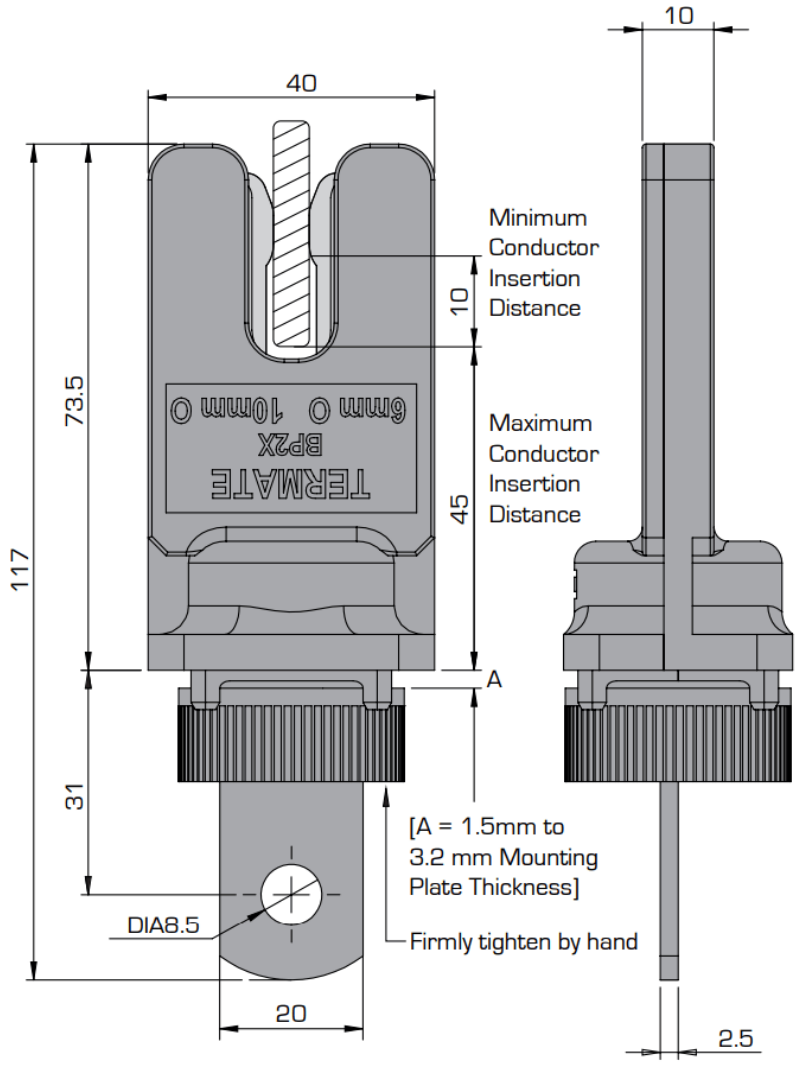
RECOMMENDED MAINTENANCE

- Moving assemblies are inspected within every 200 operations or immediately after any form of short circuit
- Unplug or withdraw the moving assembly
- Visually inspect all components for damage or signs of arcing, damaged or worn components should be further inspected or replaced as required
- Clean and re-grease any moving electrical contacts with a suitable electrical grade lubricant

- Clean and re-grease any moving mechanical parts with a suitable lubricant
- Check tightness of any fixings

BP2X BUSBAR PLUG - DIMENSIONS

BP2X250



Please Note: The plug connector has been designed to be connected and disconnected off load.

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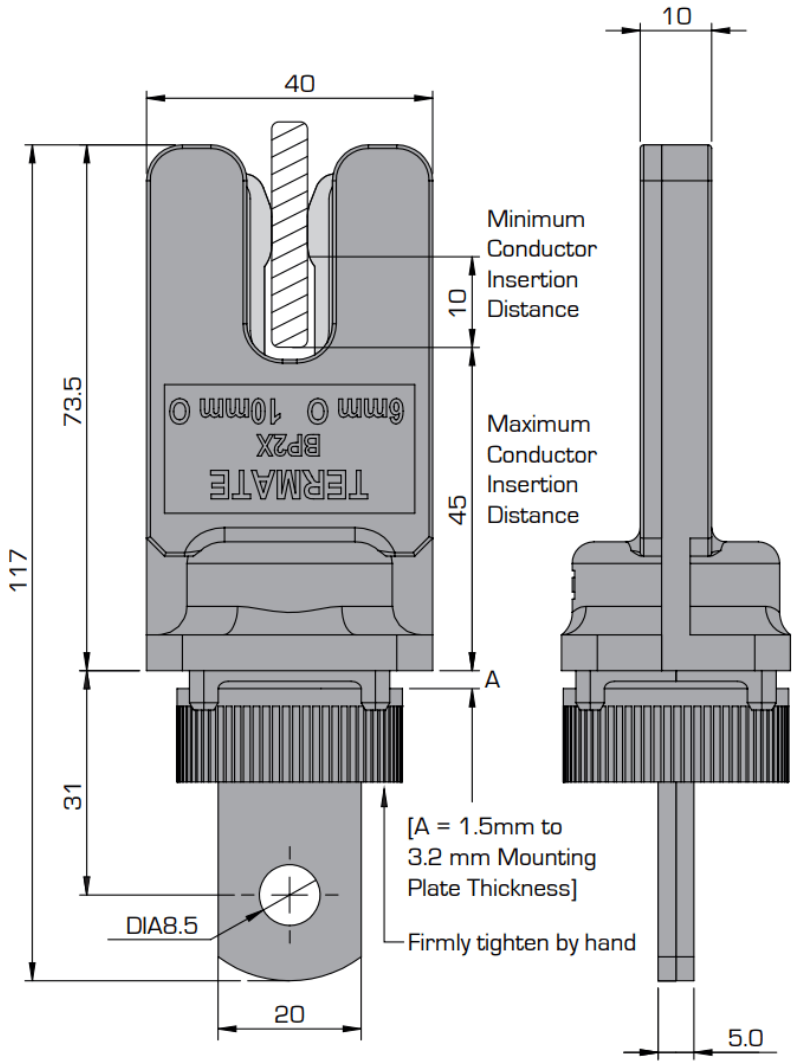
BP2X400

Please Note: The plug connector has been designed to be connected and disconnected off load.



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TYPICAL INSTALLATION

Busbar plug attached to mounting plate and connected to conductor.

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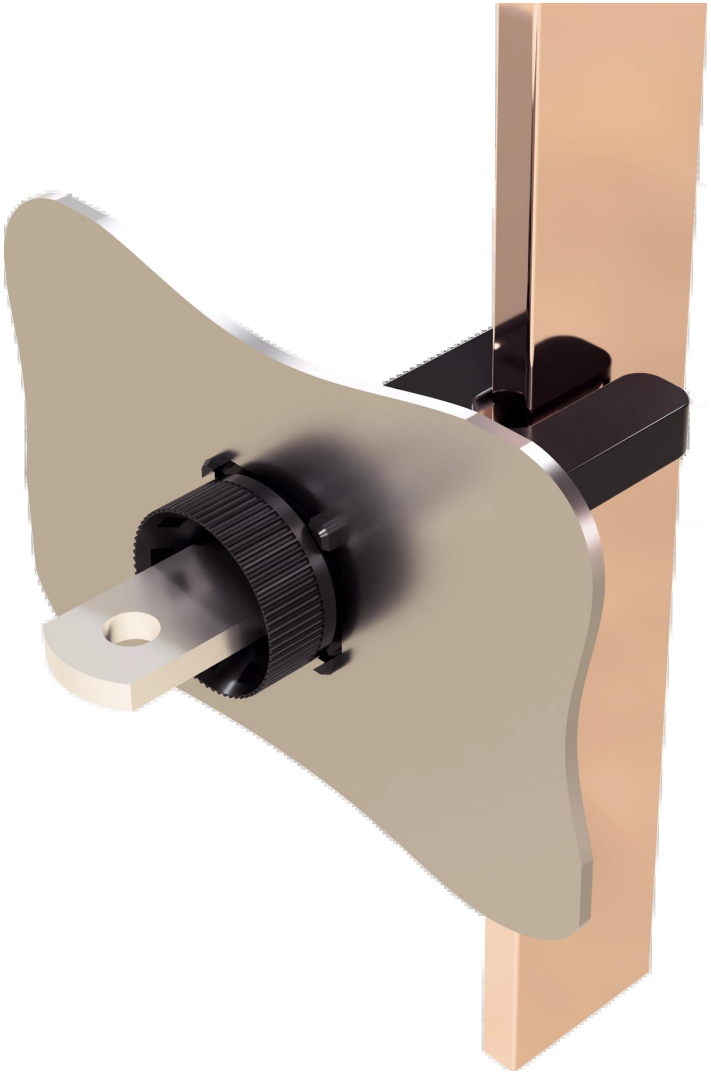

Termate is committed to the highest standard of customer focus and we have made every effort to maintain the accuracy and completeness of the information provided in this data.

Where improvements to our products affect their installation and usage we endeavour to contact any customers who may be affected.

Warranty as stated in our **Terms and Conditions of Trading** is void if any modification is made to the warranted product.