

Busbar Connection Plates

Use

These are designed to connect onto flat copper or aluminium busbars where drilling of the existing bars is not possible or desirable.

Construction

Plates are made from copper bar. These are tin or silver plated unless this is not required in some temporary connection situations.

The connection is made by a contact band inserted into grooves milled into the copper bar. This provides high current carrying capacity and low insertion force.

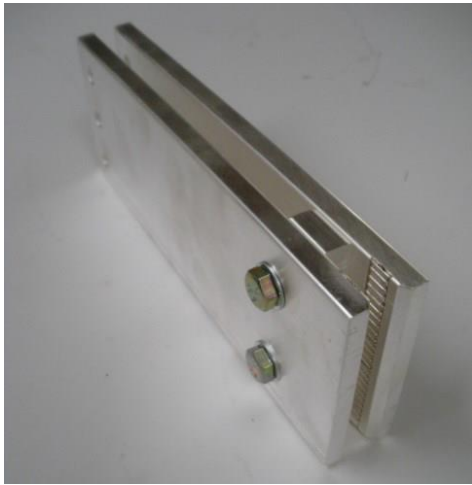
Technical

	Per mm
Rated Thermal Current (A)	18A
Short-Circuit Current 2 sec (kA)	0.43
3 sec (kA)	0.30
Resistance ($\mu \Omega \text{ mm}^{-1}$)	1000
Contact Force (N mm^{-1})	3.0
Sliding Force (N mm^{-1})	1.05

Kentan Engineering has carried out the following tests:

- Short Circuit at 50 and 65kA for 1 second.
- Temperature rise showing that there is negligible temp. increase at the contact area.
- Contact resistance verification.

Typical Examples of Connection Plates



*Contact for electrowinning cell
(approx. 600A)*



*Temporary cable connection onto 6.35mm busbars
(approx. 2000A)*



*Connection plate for permanent extension of 10mm thick main busbars
(approx. 3500A)*

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