

## 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 silver plated unless 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 ( $\text{N mm}^{-1}$ )	3.0
Sliding Force ( $\text{N mm}^{-1}$ )	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.



Contact for electro-winning 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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