

# 80 A Contact Clamp for High Current

The 80 A Contact Clamp series for contacting of flat contacts has the following features:

- Contacting manually or automatically
- Contact surface protective
- High current capacitance
- Low transition resistance
- Long service life
- Modular and easy maintenance
- Can be combined with alternative test contacts
- Mountable irrespective of its position
- Little required space

The 80 A Contacting Clamp made of tempered copper-beryllium alloy has been developed for the contacting of conducting flat contacts. Via large contact surfaces currents of up to 80 A can be transmitted safely and without damage to the contact surfaces, for example, on Faston flat contacts 6.3 x 0.8 mm. It also can be used for automatically contacting in automated test systems or rigs. For various applications the 80 A Contacting Clamp can be adapted. Custom made products and further information are available upon request.

## Mechanical Specifications

### Camber

$F_0 = 6.5 \text{ N}$  (w/o plugged contact clamp)

### Spring rate

$D = 7500 \text{ N/m}$

### Contact force

$F_K = F_0 + D \cdot d/2$

### Maximum contact thickness

$d_{\text{max}} = 1.5 \text{ mm}$

### Insertion force

$F_I = 2 - 3.5 \text{ N}$  (ref. contact  $d = 0.8 \text{ mm}$ )

### Drawing force

$F_A = 1.5 - 2.5 \text{ N}$  (ref. contact  $d = 0.8 \text{ mm}$ )

## Electrical Specifications (contact spring incl. soldered joint)

### Maximum allowed continuous current

80 A (cross section gripper tot.  $8.6 \text{ mm}^2$ )

### Typical transfer resistance

1 m $\Omega$  (ref. 0.8 mm Faston tinned)

### Contact cycles

Max. 500.000 (dependent upon the inserted contact)

### Contacting mode

Manual or automatic

### Caution

Do not plug or remove contacts under load.

### Material and Surface

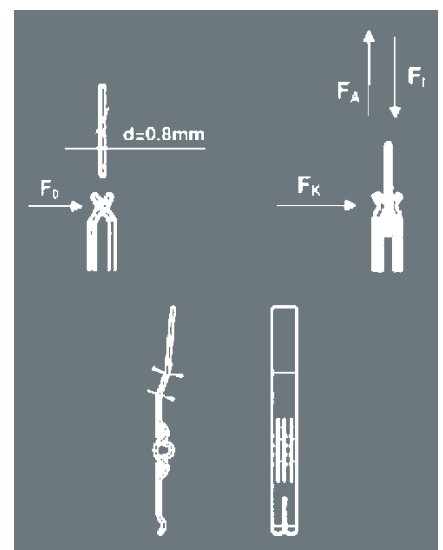
Contact clamp made of copper-beryllium alloy

Bolt made of steel

Housing made of polymer plastic



80 A Contact Clamp in use  
Utility patent DE 20 2006 006 957 U1



80 A Contact Clamp force diagram above (not contacted and contacted state) and side and front view below