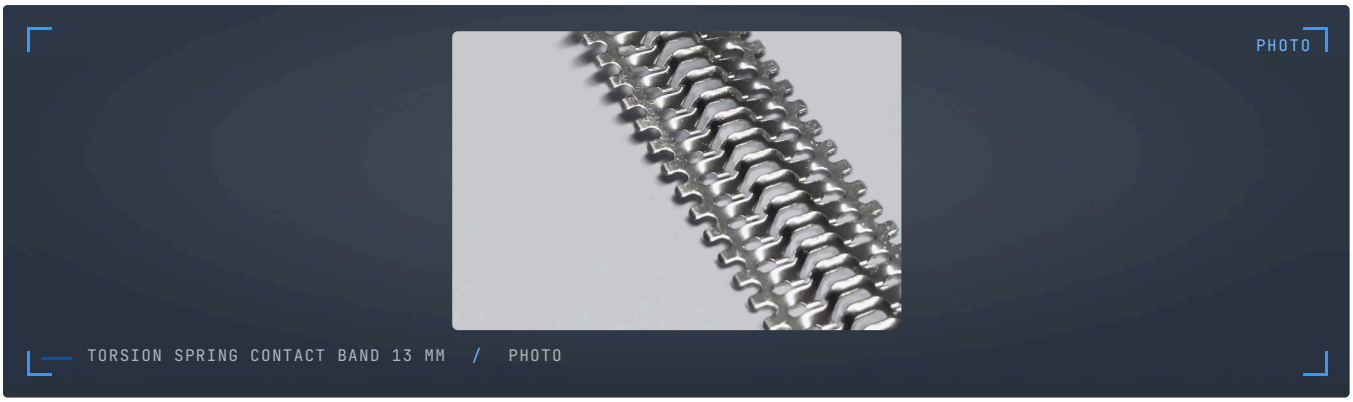
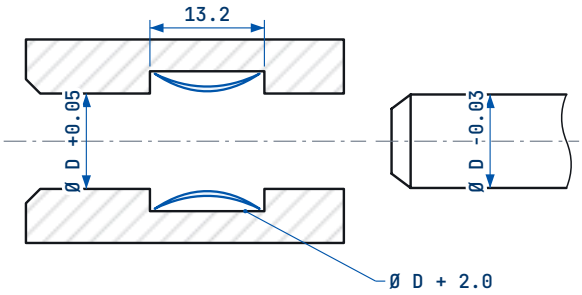
DATASHEET · CONTACT LAMELLAE

# Torsion spring contact band 13 mm

The 13 mm torsion spring contact band by ACA Atlas Contacte is a contact lamella of beryllium copper (CuBe) with a 2.0 mm louver pitch for high-current connectors from 8 mm mating diameter. It is designed for mounting in the socket, the pin version is made on request. Besides the 13 mm band we make the torsion spring contact band in 17.5 mm width.




| 13 mm | 2.0 mm | 1.8 mm | 25 A | from 8 mm |
|---|---|---|---|---|
| Band width | Louver pitch | Unloaded height | Current per louver, guide | Mating diameter D |




**Mounting in the socket**
Pin version on request

Mounting in the socket, schematic and not to scale. D = mating diameter, dimensions in mm.

## 01 Operating principle

In the torsion spring contact band the contact force comes from torsion of the louvers, not from bending. Each louver twists about its own long axis when pin and socket are mated. The spring characteristic is therefore flatter than with leaf spring louvers, and the usable working range is larger.

The current flows by the shortest route directly from the pin through the louver into the socket. Combined with many parallel contact points, this gives a high current rating with low contact resistance. On insertion the louvers wipe across the contact surface and clean it.

## 02 Features

- Contact force from torsion of the louvers, flat spring characteristic
- Many parallel contact points, current by the shortest route from pin to socket
- Self-cleaning on insertion
- Material beryllium copper (CuBe), silver-plated or bare
- Mounting in the socket, pin version on request
- Customer-specific adaptations possible

## 03 Technical data and installation dimensions

The 13 mm torsion spring contact band has a louver pitch of 2.0 mm: the band length L is a multiple of the pitch, and the number of louvers is the band length divided by 2.0 mm. The dimensions come from the 13 mm installation drawing, material thickness and leg angle from the lamella configurator.

### TECHNICAL DATA

| | | |
|---|---|---|
| Material | Beryllium copper (CuBe) | |
| Finish | silver-plated, bare as an option | |
| Silver thickness | on request | |
| Width (flat) | 12.9 | mm |
| Louver pitch | 2.0 | mm |
| Band length L | n × 2.0 | mm |
| Unloaded height | 1.8 | mm |
| Material thickness S | 0.2 | mm |
| Leg angle A | 45° | |
| Number of louvers N | band length L ÷ 2.0 mm | |
| Mating diameter D | from 8 | mm |
| Current per louver (guide) | 25 A for silver-plated bands, bare × 0.8 | |
| Contact resistance, temperature range, mating cycles | on request | |

### INSTALLATION DIMENSIONS, SOCKET VERSION

| | | |
|---|---|---|
| Socket bore | D +0.05 | mm |
| Pin diameter | D −0.03 | mm |
| Groove Ø in the socket | D + 2.0 | mm |
| Groove width | 13.2 | mm |
| Pin version | on request | |

$I_{max} = n \times I_{louver}$ — permissible total current

$n = L \div 2.0\ mm$ — louvers in contact, L = band length

**GUIDE VALUE** The current per louver is the lamella configurator's calculated value for silver-plated bands (12.5 A per mm of band length), bare × 0.8. The current rating depends on the installation, higher or lower values are possible. Verifying measurements in your application are required.

### Enquiries and orders

- Band width 13 mm
- Socket version (pin version on request)
- Mating diameter D or band length L (multiple of 2.0 mm)
- Finish: silver-plated or bare
- Quantity (from 100 pieces in the configurator)

**ONLINE**

Lamella configurator with current rating guide value
atlas-contacte.de/en/request-a-quote/?bauart=tors

Request with drawing, or samples
atlas-contacte.de/en/request-a-quote/

Product page with configurator

**INSTALLATION DRAWINGS (PDF)**

13 mm, socket version
atlas-contacte.de/en/downloads/

**CONTACT**

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**QUALITY**

ACA Atlas Contacte GmbH is certified to ISO 9001:2015 (DQS GmbH, reg. no. 068040 QM15). Founded 1987.

ISO 9001:2015 certificate (PDF, German)

**Note:** Subject to technical change. All data are guide values given to the best of our knowledge and are not guaranteed properties. Only the drawings and specifications agreed with you are binding. Verify suitability, current rating and temperature rise in your application by measurement. The product photo shows a 13 mm torsion spring contact band, the installation sketch is schematic. © ACA Atlas Contacte GmbH, 2026-11.