



Picture exemplary

**mtc's clip-on contact springs** are made of copper beryllium (CuBe) with a bright clean surface as standard. CuBe offers excellent electric and thermal conductivity in combination with a high material strength. On request a surface finish like tin-, zinc-, nickel-, silver- or gold-plating can be applied.

**mtc's** standard program offers a huge variety of contact springs with different mounting methods and dimensions. The contact springs can also be cut to length.



### Features

Different surfaces available

Custom length available

Mounting method: clip-on

Excellent electric and thermal conductivity; high material strength

Resistance to environmental influences and against corrosion

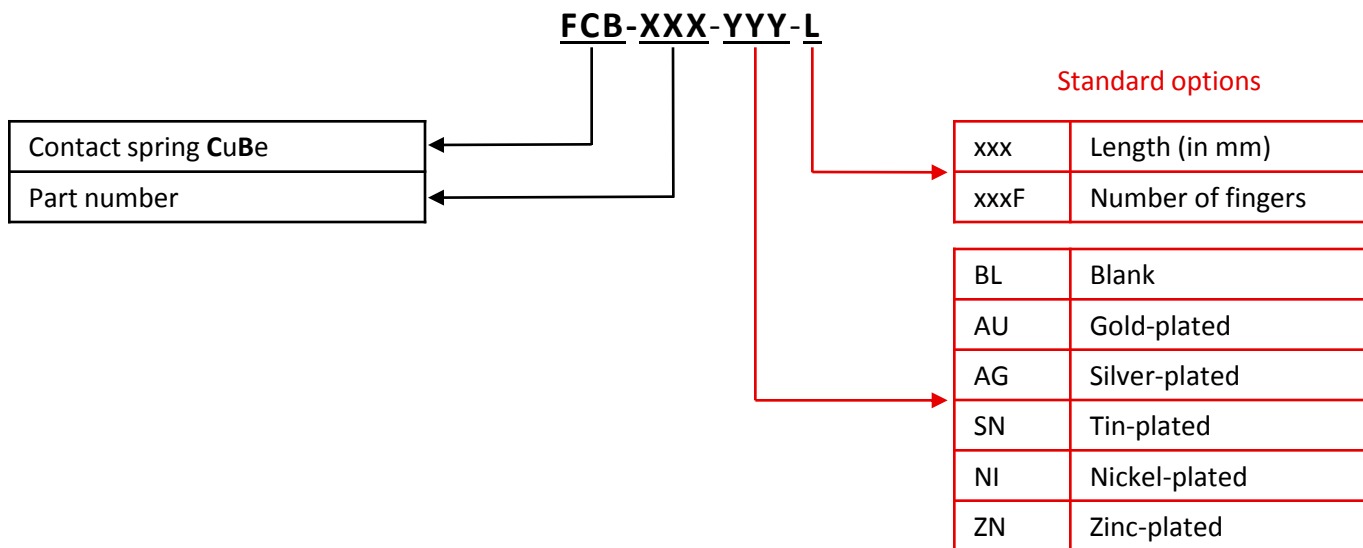
High temperature resistance

Typical properties of CuBe	Value	Unit
Basic material	Copper beryllium (CuBe)	-
Surfaces	Blank, gold-, silver-, tin-, nickel-, zinc-plated	-
Density	8,36	g/cm <sup>3</sup>
Elastic modulus	13,4	kg/mm <sup>2</sup>
Thermal expansion coefficient	9,7 x 10 <sup>-6</sup>	m/m/°C @ -20°C – 200°C)
Thermal conductivity	104	W/m*K
Melting temperature	870 – 980	°C
Tensile strength	130 – 152	kg/mm <sup>2</sup>
Yield strength	112 – 138	kg/mm <sup>2</sup>
Elongation percent	12 – 30	-
Hardness – Diamond Pyramid*	373 – 435 (after heat treatment)	-
Electrical conductivity	22 – 28	Percent – IACS**
Operation temperature	-30 – 100	°C
Storage humidity	< 50	HR

\*Diamond Pyramid hardness numbers are a direct conversion from the Rockwell hardness scale

\*\* IACS: International Annealed Copper Standard

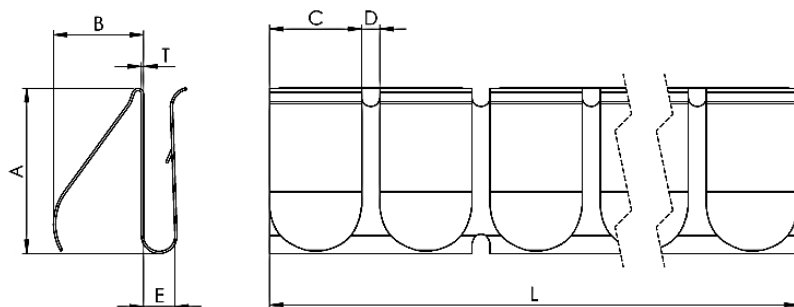
### BUILDING AN ITEM NUMBER



**Example:** FCB-211-AU-405

Contact spring CuBe; contact spring number: 211; gold-plated; length: 405 mm

### DIMENSIONS AVAILABLE



A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	T (mm)	L (mm)	Part number
9,5	5,2	5,3	1,0	1,8	0,13	406	FCB-201
10,5	6,5	3,2	1,6	2,0	0,13	405	FCB-211
10,5	6,5	8,0	1,6	2,0	0,13	405	FCB-212

We only use a schematic drawing for the presentation of our contact springs. It is necessary to request the technical drawing before starting the design.