

Picture exemplary

mtc's snap-in 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: snap-in

Excellent electric and thermal conductivity; high material strength

Resistance to environmental influences and against corrosion

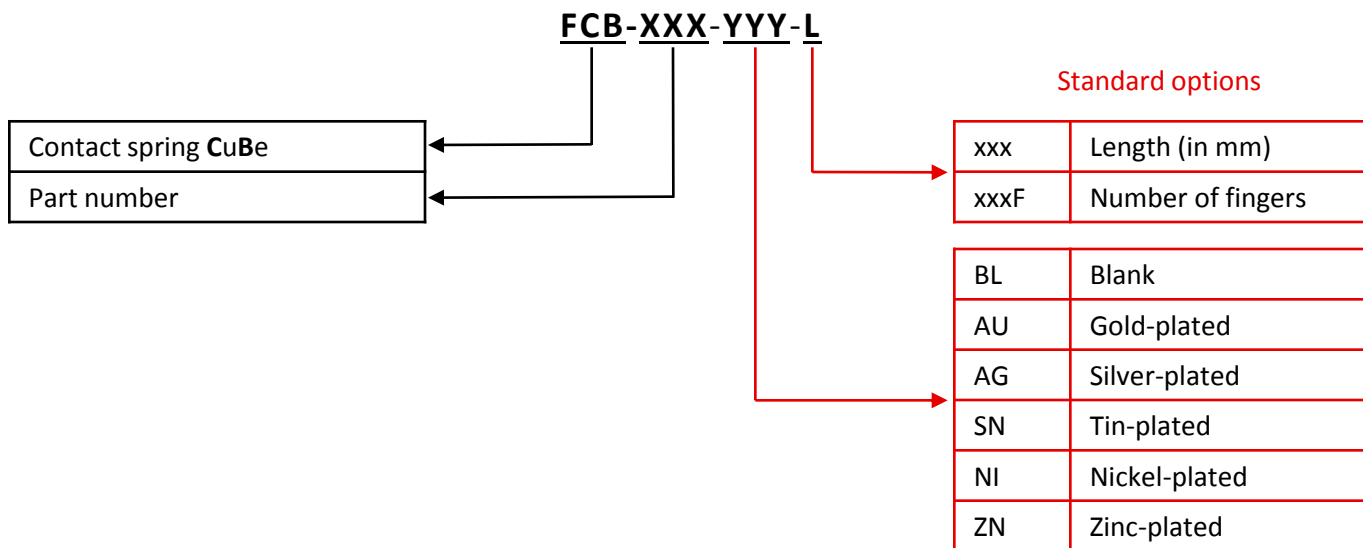
High temperature resistance

Typical properties of CuBe	Value	Unit
Basic material	Copper beryllium (CuBe)	-
Surfaces	Blank, gold-, silver-, tin-, nickel-, zinc-plated	-
Density	8,36	g/cm ³
Elastic modulus	13,4	kg/mm ²
Thermal expansion coefficient	9,7 x 10 ⁻⁶	m/m/°C @ -20°C – 200°C)
Thermal conductivity	104	W/m*K
Melting temperature	870 – 980	°C
Tensile strength	130 – 152	kg/mm ²
Yield strength	112 – 138	kg/mm ²
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

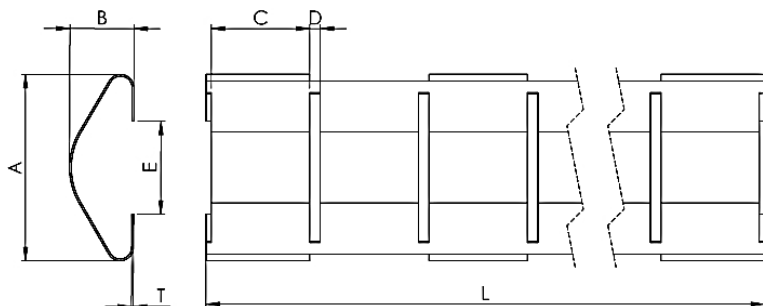
BUILDING AN ITEM NUMBER



Example: FCB-791-AU-404

Contact spring CuBe; contact spring number: 791; gold-plated; length: 404 mm

DIMENSIONS AVAILABLE



A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	T (mm)	L (mm)	Part number
8,1	2,8	4,3	0,5	4,1	0,08	404	FCB-791
9,4	3,6	4,5	0,7	5,0	0,08	406	FCB-792

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.