

FINGERSTOCK GASKETS

Application

Due to their outstanding material and electrical characteristics, beryllium copper fingers of different shapes and dimensions are used in the following industries: Broadcasting, telecommunications industrial control, measuring and instrumentation, aerospace technology, nuclear physics and data processing. Contact fingers and rings made of beryllium copper are used at all radio and microwave frequencies, for instance as contacts to valves and tuning components as well as for shielding.

Material Properties

The beryllium copper (CuBe2) used for our products is a quality tested quench hardening spring material. It is noteworthy for its yield point, tensile strength and elasticity, good electrical conductivity, high fatigue strength as well as its resistance to abrasion and corrosion. The good thermal conductivity coupled with hardness eliminates sparking. The raw material is non-magnetic and has an excellent temperature performance.

Physical Characteristics

Specific weight:	8.4 g/cm ³
Melting point:	900 °C
Coefficient to expansion: (20-200°C)	17x10 ⁻⁶ /°C
Thermal Conductivity:	0.27 cal/cm s °C
Vickers hardness:	1.13 W/cm °C
Bending resistance at 10 ⁸ cycles strength:	250-290 N/mm ²
Modulus of elasticity:	135 000 N/mm ²
Modulus of torsion:	47 000 N/mm ²
Spring bending limit:	820-950 N/mm ²
Electrical conductivity:	12.5-13 m/Ω mm ²

Material Options

- Material: hardened or unhardened
- Finish: bright finish, silver, gold, zinc, bright tin, tin lead, bright nickel or according to customer specifications.

- Material in stock: hardened and bright finish or hardened and silver or tin plated 4-6 µm.

Components

- As a single finger, contact strip or contact ring
- Contact strips are carried as stock items
- Almost all contact strips can be formed by the user into contact rings

Special finger

New shapes and special types available at short notice.

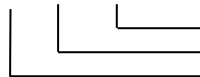
Please note:

While we believe the information in this document to be correct and in accordance with DIN or MIL standard, we cannot guarantee electrical specification and we accept no responsibility for any errors or misprints. Details are subject to change without notification.

Ordering information

EXAMPLE

P/N: EMC BC 0000-00



Surface Finish and Plating
Part Number
Type of Material

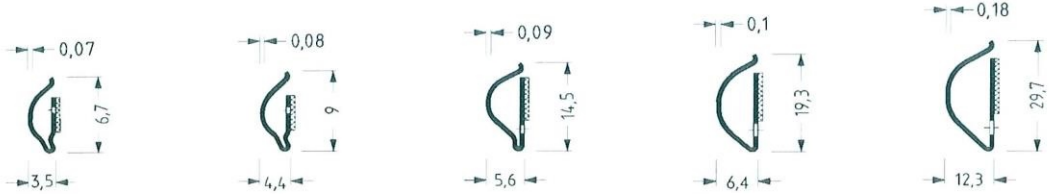
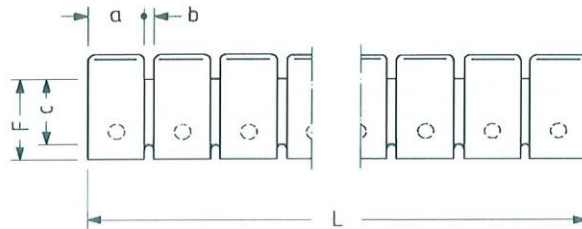
Type of Material

BC: Beryllium Copper ((BeCu)
SS: Stainless Steel (where available)

Surface Finish and Plating Codes

- 02 bright finish
- 03 gold
- 04 silver
- 15 zinc chromate/clear
- 17 bright tin
- 19 bright nickel
- 00 customer specification

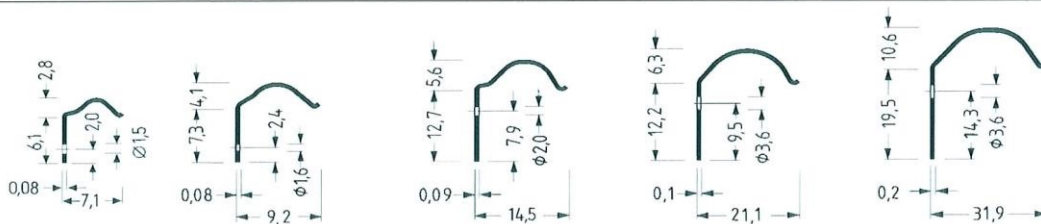
CURVED FINGERS



All contact strips are provided with two-sided adhesive strip.

Form	V10	V11	V12	V13	V14	
Form	a mm	b mm	c mm	F mm	L mm	Part no.
V10	4.32	0.46	3.85	5.5	406	9001*
					7620	9002
V11	5.79	0.56	3.85	7.5	406	9003*
					7620	9004
V12	8.71	0.81	10.00	12.60	609	9005
					7620	9006
V13	8.51	1.02	10.00	12.00	608	9007*
					7620	9008
V14	11.68	1.02	17.00	17.80	304	9009*

* only available in BeCu



Form	V15-1	V15	V16	V17	V18	
Form	a mm	b mm	c mm	F mm	L mm	Part no.
V15-1	4.32	0.46	3.7	5.5	406	9019*
V15	5.79	0.56	3.9	7.6	406	9020*
V16	8.71	0.81	9.9	12.9	609	9021*
V17	8.51	1.02	11.8	12.7	304	9022*
V18	11.68	1.02	18.0	19.9	304	9023*

* only available in BeCu