

FINGERSTOCK GASKETS

Application

Due to their outstanding material and electrical characteristics, beryllium copper finger of different shapes and dimension 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 ratio 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: 8.4g/cm³
 Melting point: 900°C
 Coefficient to expansion: (20-200°C) 17x10⁻⁶/°C

Thermal conductivity: 0.27 cal/cm s °C
 1.13 W/cm °C

Vickers hardness: 350-430
 Bending resistance at 10⁸ cycles strength: 250-290 N/mm²

Modulus of elasticity: 135 000 N/mm²
 Modulus of torsion: 47 000 N/mm²
 Spring bending limit: 820-950 N/mm²

Electrical conductivity: 12.5-13 m/Ω mm²

Material Options

- Material: hardened or unhardened
- Finish: bright finish, silver, gold, zinc, bright tin, tin lead, bright nickel or according to customer specifications. Plating codes: see page 19

- 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:

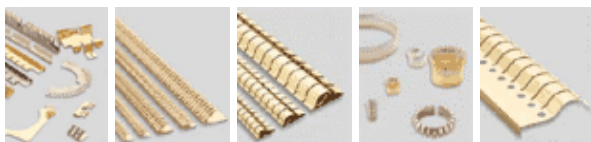
While we believe the information in this document to be correct and in accordance with DIN or MIL standard, we cannot guarantee electrical specification and we accept no responsibility for any errors or misprints. Details are subject to change without notification.

Ordering information

EXAMPLE

P/N: BC 0000-00

Surface Finish and Plating
 Part Number
 Type of Material



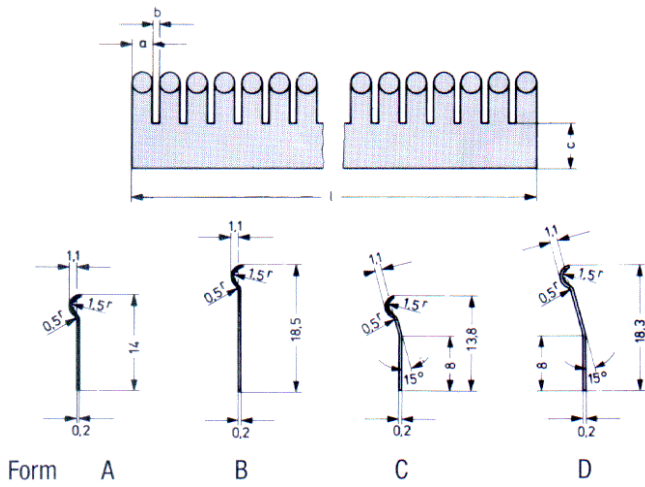
Type of Material

BC: Beryllium Copper
 SS: Stainless Steel (upon request)
 BP: Phosphor Bronze (upon request)

Surface Finish and Plating Codes

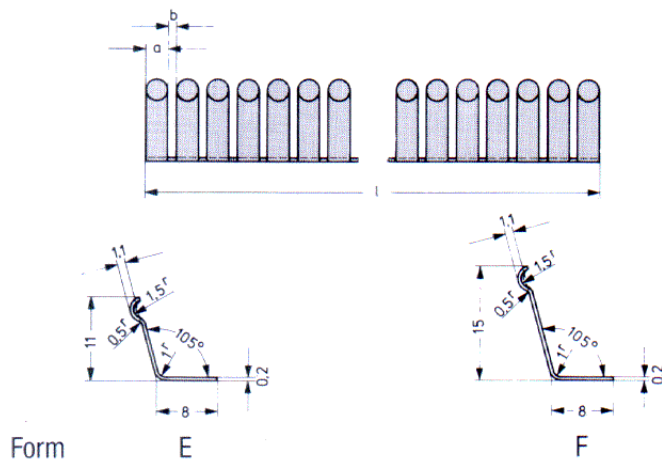
-02 bright finish
 -03 gold
 -04 silver
 -15 zinc chromate/clear
 -17 bright tin
 -19 bright nickel
 -00 customer specification

Contact Strips



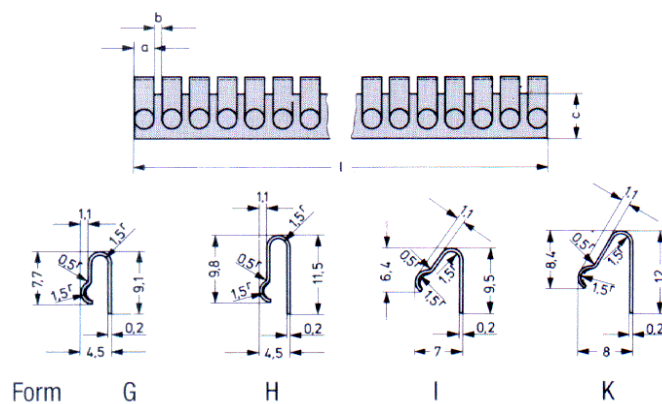
Form	a mm	b mm	c mm	l mm	Part No.
A	3	1	6.5	500	8101
B	3	1	6.5	500	8102
C	3	1	6.5	500	8103
D	3	1	6.5	500	8104

Surface finish and plating codes: see page 19



Form	a mm	b mm	c mm	l mm	Part No.
E	3	1	6.5	500	8105
F	3	1	6.5	500	8106

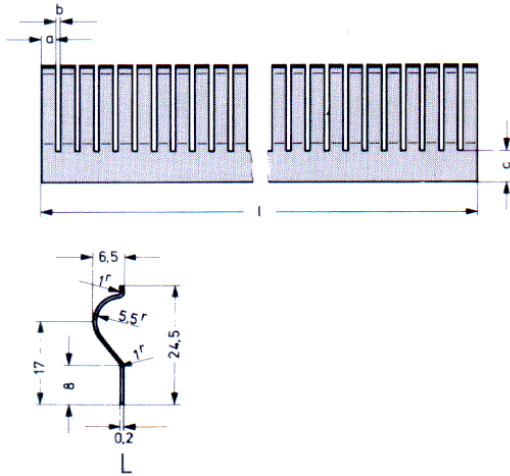
Surface finish and plating codes: see page 19



Form	a mm	b mm	c mm	l mm	Part No.
G	3	1	6.5	500	8107
H	3	1	6.5	500	8108
I	3	1	6.5	500	8109
K	3	1	6.5	500	8110

Surface finish and plating codes: see page 19

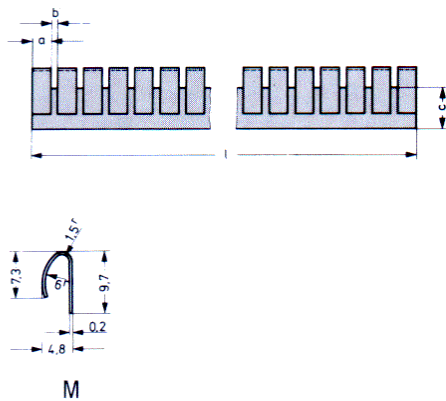
Contact Strips



Form

Form	a	b	c	l	Part No.
	mm	mm	mm	mm	
L	3	1	6.5	500	8111

Surface finish and plating codes: see page 19

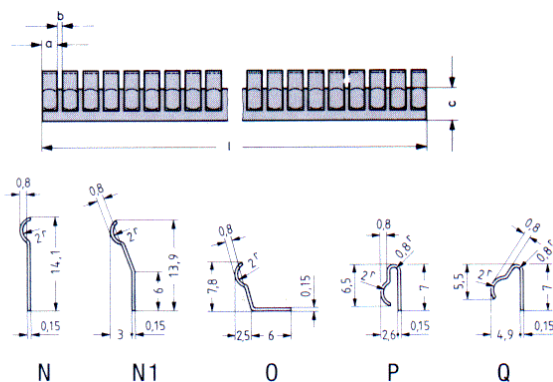


Form

M

Form	a	b	c	l	Part No.
	mm	mm	mm	mm	
M	3	1	6.5	500	8112

Surface finish and plating codes: see page 19



Form

N

N1

O

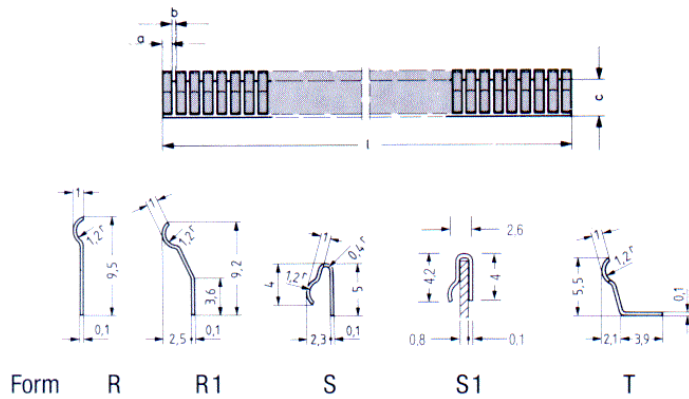
P

Q

Form	a	b	c	l	Part No.
	mm	mm	mm	mm	
N	1.5	0.5	5.5	500	8113
N 1	1.5	0.5	5.5	500	8113-1
O	1.5	0.5	5.5	500	8114
P	1.5	0.5	5.5	500	8115
Q	1.5	0.5	5.5	500	8116

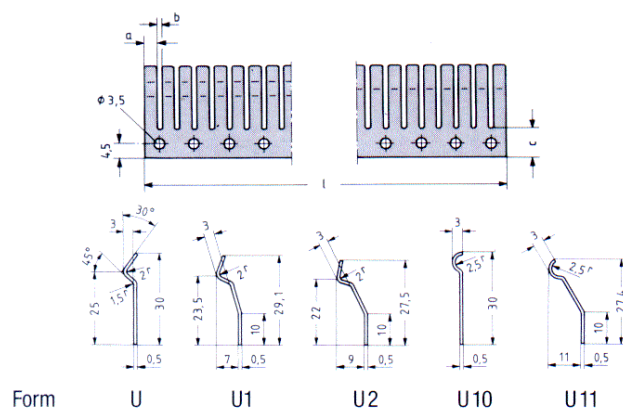
Surface finish and plating codes: see page 19

Contact Strips



Form	a mm	b mm	c mm	l mm	Part No.
R	1	0.5	3.2	500	8117
R 1	1	0.5	3.2	500	8117-1
S	1	0.5	3.2	500	8118
S 1	1	0.5	3.2	406	8118-1
T	1	0.5	3.2	500	8119

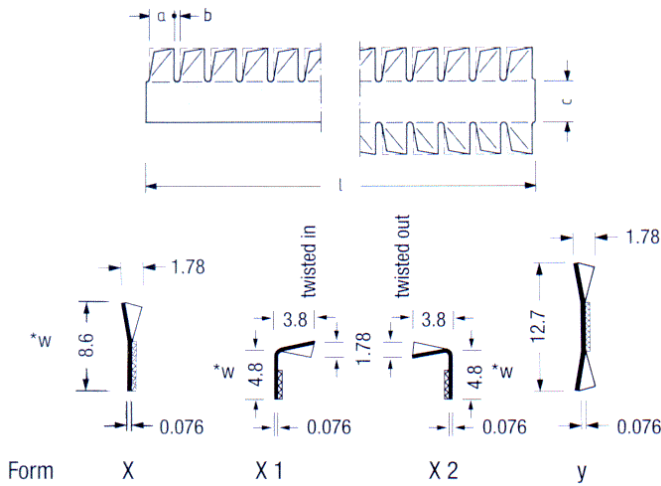
Surface finish and plating codes: see page 19



Form	a mm	b mm	c mm	l mm	Part No.
U	3	1	9	500	8120
U 1	3	1	9	500	8120-1
U 2	3	1	9	500	8120-2
U 10	3	1	9	500	8120-10
U 11	3	1	9	500	8120-11

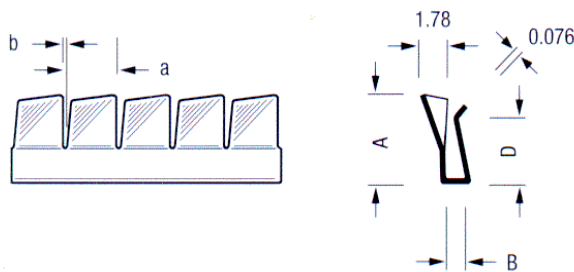
Surface finish and plating codes: see page 19

Twisted Contact Strips



Form	a	b	c	l	Part No.
	mm	mm	mm		
X	3.8	0.4	4.8	16"	8501
	3.8	0.4	4.8	24"	8502
	3.8	0.4	4.8	500 mm	8503
	3.8	0.4	4.8	endless	8504
X 1	3.8	0.4	4.8	500 mm	8505
X 2	3.8	0.4	4.8	500 mm	8506
Y	3.8	0.4	4.8	16"	8511
	3.8	0.4	4.8	24"	8512
	3.8	0.4	4.8	500 mm	8513
	3.8	0.4	4.8	endless	8514

*w: other dimension available

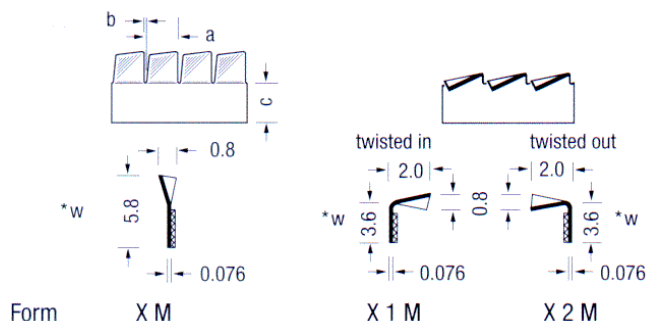


Form X 3, X 4

Form	a	b	A	B	D	l	Part No.
	mm	mm	mm	mm	mm	mm	
X 3	3.8	0.4	4.8	1.0	3.3	406	8601
	3.8	0.4	4.8	1.5	3.0	406	8602
	3.8	0.4	4.8	2.0	2.8	406	8603
X 4	3.8	0.4	6.4	1.0	5.1	406	8604
	3.8	0.4	6.4	1.5	4.6	406	8605
	3.8	0.4	6.4	2.0	4.1	406	8606

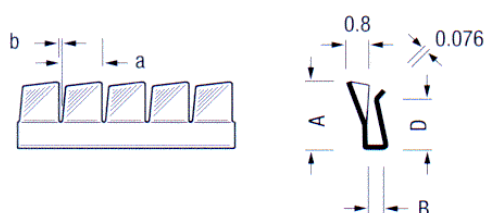
Also available with lances

Mini-Twisted Contact Strips



Form	a	b	c	l	Part No.
	mm	mm	mm	mm	
XM	2	0.4	3.6	500	8610
	2	0.4	3.6	610	8611
	2	0.4	3.6	endless	8613
X 1M	2	0.4	3.6	610	8614
X 2M	2	0.4	3.6	610	8615

*w: other dimension available

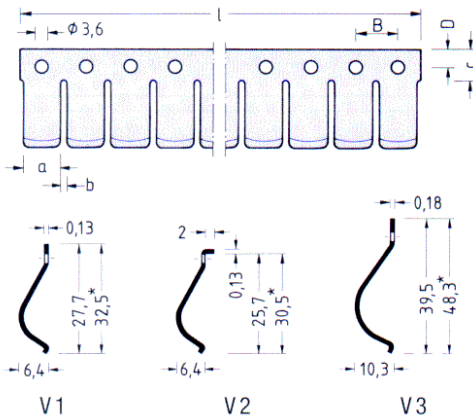


Form X 5 bis X 10

Form	a	b	A	B	D	L	Part No.
	mm	mm	mm	mm	mm	mm	
X 5	2	0.4	3.8	1.0	3.0	406	8616
X 6	2	0.4	3.8	1.5	2.5	406	8617
X 7	2	0.4	4.1	1.0	4.0	406	8618
X 8	2	0.4	4.1	1.5	3.5	406	8619
X 9	2	0.4	5.8	1.0	4.0	406	8620
X 10	2	0.4	5.8	1.5	3.5	406	8621

X 5 and X 6 also available with lances

RFI/EMI-Shielding



Form	a	b	c	B	D	l	Part No.
	mm	mm	mm	mm	mm	mm	
V 1	8.5	1	6.7	9.5	3.96	503.5	8801
	8.5	1	6.7	9.5	3.96	upon request	8802
V 2	8.5	1	6.7	9.5	3.96	503.5	8803
V 3	11.7	1	7.9	12.7	4.75	508	8804
	11.7	1	7.9	12.7	4.75	upon request	8805

Form

V1

V2

V3

Electrical Properties

Excellent shielding values >110 dB at 100 MHz

Application

Shielding of doors and other movable parts in shielded rooms and enclosure

Mounting

By way of rivets, screws or soldering

Material

Bericlo 25 , CuBe2 ,1/2 H
Spring hardened

Finish

bright finish
gold
silver
zinc chromate/clear
bright tin
bright nickel
customer specification

see also page 19