

BERYLLIUM COPPER CONTACT FINGER STRIPS

and other EMI shielding products



Application

Due to their outstanding material and electrical characteristics, beryllium copper fingers of different shapes and dimensions are used in the following industries: Broadcasting, telecommunication, 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:	8.4g/cm ³
Melting point:	900°C
Coefficient to expansion:	(20–200°C) 17x10 ⁻⁶ /°C
Thermal conductivity:	0.27cal/cm · s · °C 1.13 W/cm · °C
Vickers hardness:	350–430
Bending resistance at 10 ⁸ cycles strength:	250–290 ±N/mm ²
Modulus of elasticity:	135000N/mm ²
Modulus of torsion:	47000N/mm ²
Spring bending limit:	820–950N/mm ²
Electrical conductivity:	12.5–13m/Ωmm ²

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 16
- Material in stock: hardened and bright finish or hardened and silver or tin plated 4-6 μm
- Order information see page 6

Components

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

Special Fingers

New shapes and special types available at short notice.

Quality Certification

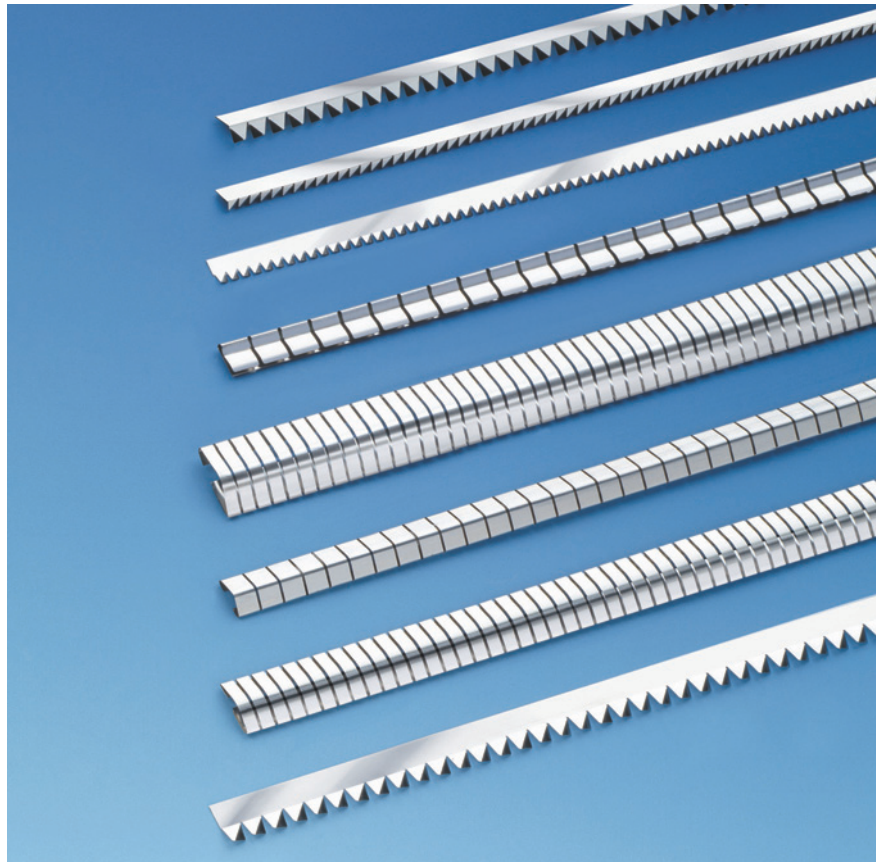
Our facilities for producing EMI shielding and related products and services have been DIN EN ISO 9001 certified.

Please note:

While we believe the information in this document to be correct and in accordance with DIN or MIL standards, we cannot guarantee electrical specifications and we accept no responsibility for any errors or misprints. All measures of length are rounded off.

Details are subject to change without notification.

CONTACT STRIPS MADE OF STAINLESS STEEL



Contact strips made of stainless steel

The material used is stainless strip steel for springs: a material with extraordinary toughness, good spring characteristics, and long service life. The anti-corrosion properties are excellent, with the result that the contact surfaces are always smooth and shiny. The shielding properties are good, but the damping values that can be achieved are less than with BeCu.

Material number: 1.4310

Characteristics: stainless steel,
spring band steel, cold-rolled
DIN 17224, EN 10258

Mechanical properties:

Tensile strength: 1220 (RM N/mm²)
Yield strength: 987 (RP N/mm²)
Strain: 31.00 (L=80mm)

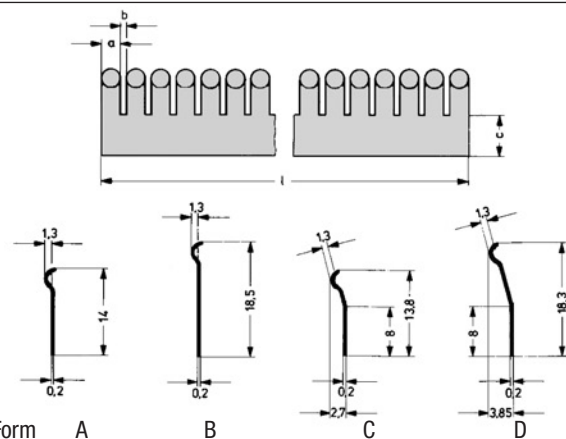
Chemical composition: (data given in percent)

C	: 0.102	Si	: 1.130	Mn	: 1.150	P	: 0.033
S	: 0.005	Cr	: 16.790	Mo	: 0.670	Ni	: 6.770
Ti	: 0.000	Al	: 0.000	Cu	: 0.000	V	: 0.000
W	: 0.000	Cb/Ta	: 0.000	Fe	: 73.350		

Our stainless steel assortment includes almost all of our standard contact springs. To order just put E in front of the part no. e.g.: E xxxx

Please note that the dimensions of the V2A-springs may vary from the CuBe springs, due to the different material conditions. Please refer to us for further enquiry.

Contact Strips



Form

A

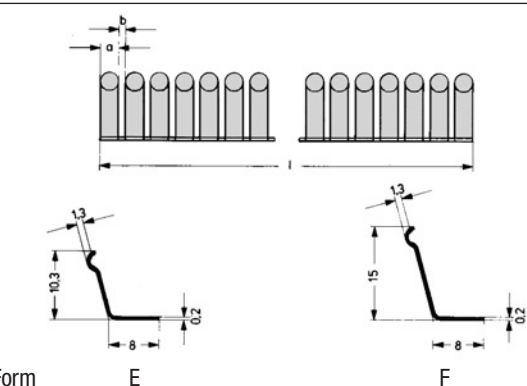
B

C

D

Form	a mm	b mm	c mm	l mm	Part no.
A	3	1	6.5	499	8101
B	3	1	6.5	499	8102
C	3	1	6.5	499	8103
D	3	1	6.5	499	8104

Surface Finish and Plating Codes: see page 16



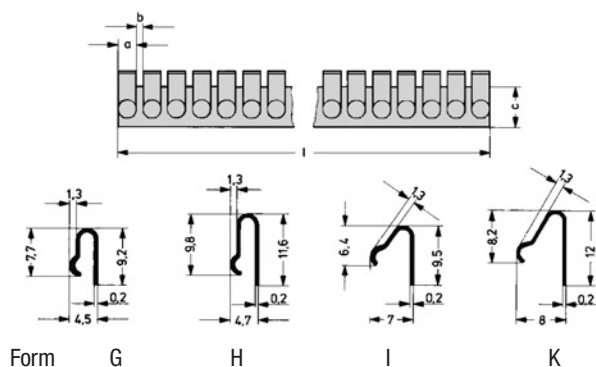
Form

E

F

Form	a mm	b mm	c mm	l mm	Part no.
E	3	1	6.5	499	8105
F	3	1	6.5	499	8106

Surface Finish and Plating Codes: see page 16



Form

G

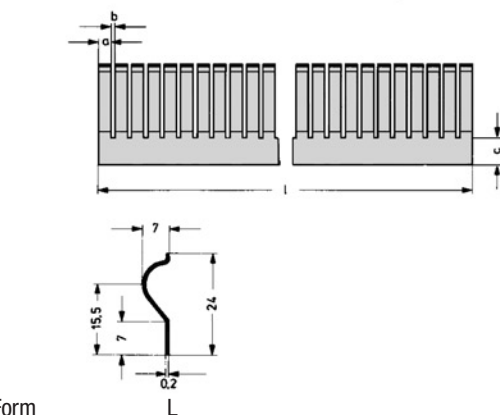
H

I

K

Form	a mm	b mm	c mm	l mm	Part no.
G	3	1	6.5	499	8107
H	3	1	6.5	499	8108
I	3	1	6.5	499	8109
K	3	1	6.5	499	8110

Surface Finish and Plating Codes: see page 16



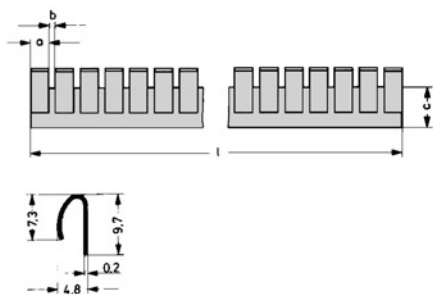
Form

L

Form	a mm	b mm	c mm	l mm	Part no.
L	3	1	6.5	499	8111

Surface Finish and Plating Codes: see page 16

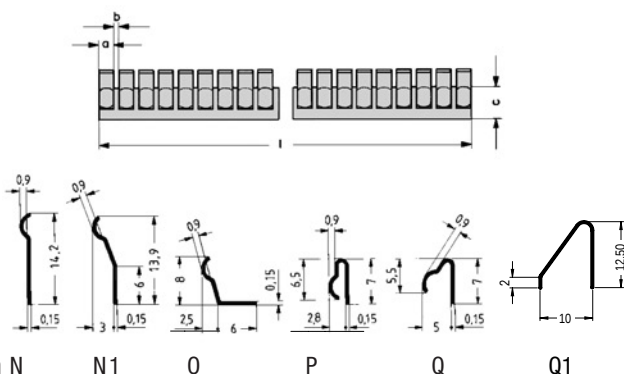
Contact Strips



Form M

Form	a mm	b mm	c mm	l mm	Part no.
M	3	1	6.5	499	8112

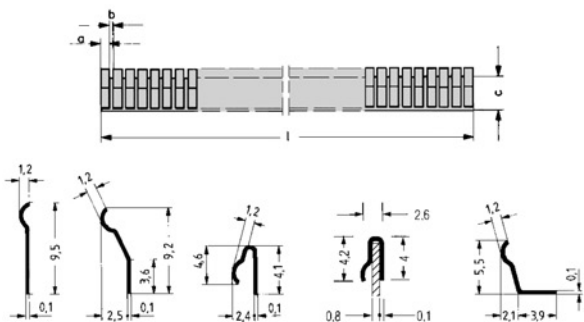
Surface Finish and Plating Codes: see page 16



Form N N1 O P Q Q1

Form	a mm	b mm	c mm	l mm	Part no.
N	1.5	0.5	5.5	500	8113
N1	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
Q1	1.5	0.5	5.5	500	8116-1

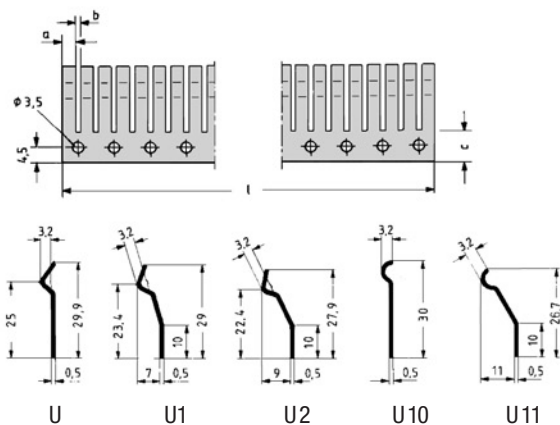
Surface Finish and Plating Codes: see page 16



Form R R1 S S1 T

Form	a mm	b mm	c mm	l mm	Part no.
R	1	0.5	3.2	500	8117
R1	1	0.5	3.2	500	8117-1
S	1	0.5	3.2	500	8118
S1	1	0.5	3.2	406	8118-1
T	1	0.5	3.2	500	8119

Surface Finish and Plating Codes: see page 16

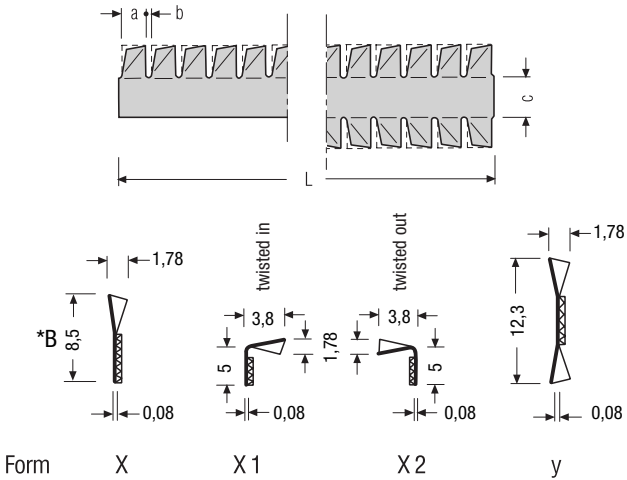


Form U U1 U2 U10 U11

Form	a mm	b mm	c mm	l mm	Part no.
U	3.03	0.97	9	503	8120
U1	3.03	0.97	9	503	8120-1
U2	3.03	0.97	9	503	8120-2
U10	3.03	0.97	9	503	8120-10
U11	3.03	0.97	9	503	8120-11

Surface Finish and Plating Codes: see page 16

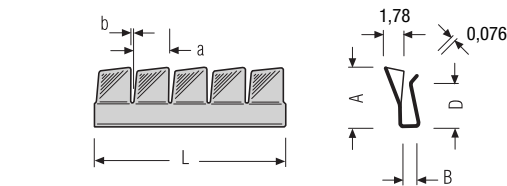
Twisted Contact Strips



Strips with or without tape

Form	a	b	c	L	Part no.
X	3.8	0.4	4.8	499 mm	8501
	3.8	0.4	4.8	499 mm	8502
	3.8	0.4	4.8	499 mm	8503
	3.8	0.4	4.8	Endless	8504
X1	3.8	0.4	4.8	499 mm	8505
X2	3.8	0.4	4.8	499 mm	8506
Y	3.8	0.4	4.8	499 mm	8511
	3.8	0.4	4.8	499 mm	8512
	3.8	0.4	4.8	499 mm	8513
	3.8	0.4	4.8	Endless	8514

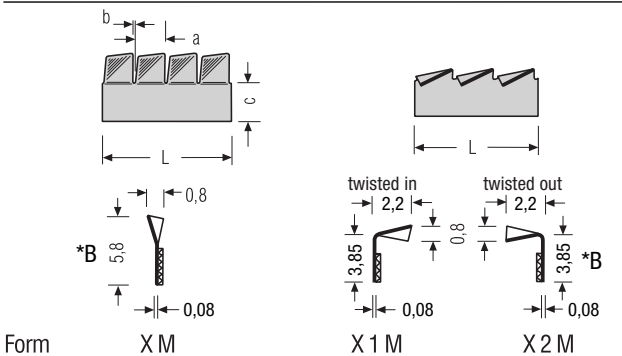
* B: other dimensions available



Form	a	b	A	B	D	L	Part no.
X3	3.8	0.4	4.8	1.0	4.1	407 mm	8601
	3.8	0.4	4.8	1.5	3.6	407 mm	8602
	3.8	0.4	4.8	2.0	3.2	407 mm	8603
X4	3.8	0.4	6.4	1.0	5.7	407 mm	8604
	3.8	0.4	6.4	1.5	5.3	407 mm	8605
	3.8	0.4	6.4	2.0	5.0	407 mm	8606

Also available with lances

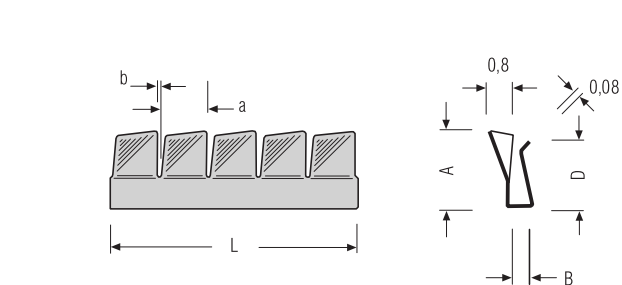
Mini-Twisted Contact Strips



Strips with or without tape

Form	a	b	c	L	Part no.
XM	2.0	0.4	3.6	500 mm	8610
	2.0	0.4	3.6	610 mm	8611
	2.0	0.4	3.6	Endless	8613
X1M	2.0	0.4	3.6	610 mm	8614
X2M	2.0	0.4	3.6	610 mm	8615

* B: other dimensions available

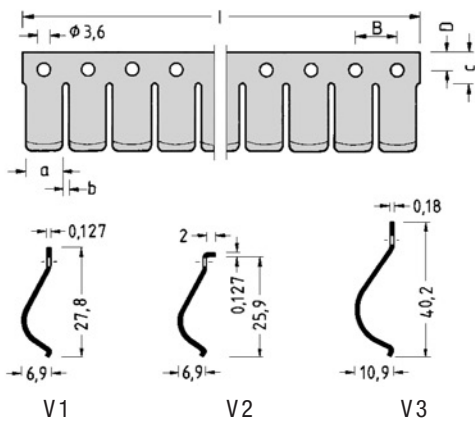
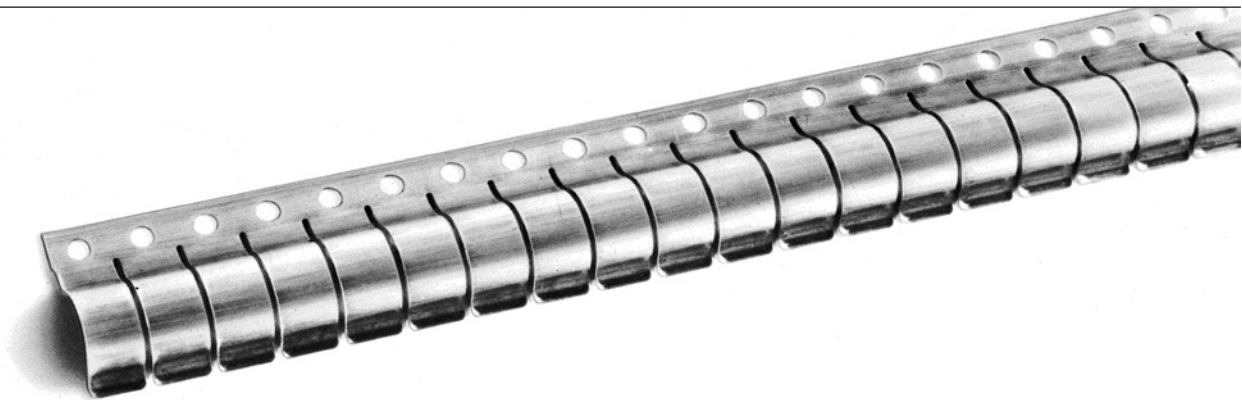


Form	a	b	A	B	D	L	Part no.
X5	2.0	0.4	3.8	1.0	3.7	405 mm	8616
X6	2.0	0.4	3.8	1.5	3.5	405 mm	8617
X7	2.0	0.4	4.7	1.0	4.5	405 mm	8618
X8	2.0	0.4	4.3	1.5	4.4	405 mm	8619
X9	2.0	0.4	5.9	1.0	4.7	405 mm	8620
X10	2.0	0.4	5.9	1.5	4.3	405 mm	8621

X 5 and X 6 also available with lances

Dimensions in mm

RFI / EMI-Shielding



Form

* Maximum compressed length

Form	a mm	b mm	c mm	B mm	D mm	l mm	Part no.
V1	8.5	1	6.7	9.5	4.00	504	8801*
	8.5	1	6.7	9.5	4.00	upon request	8802*
V2	8.5	1	6.7	9.5	4.00	504	8803*
V3	11.7	1	7.9	12.7	4.75	508	8804*
	11.7	1	7.9	12.7	4.75	upon request	8805*

* only available in CuBe

Electrical Properties

Excellent shielding values ≥ 110 dB at 100 MHz.

Application

Shielding of doors and other movable parts in shielded rooms and enclosures.

Mounting

By way of rivets, screws or soldering.

Ordering example

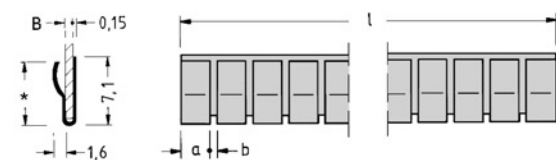
Contact strip Form CL6 / Part. no. 8906, standard length according to the catalogue

⇒ 8906.00.02
 _____ bright finish (Plating code: see page 16)

Contact strip Form CL6-1/ Part no. 8906-01, length 4 fingers

⇒ 8906.01.03.4F
 _____ gold finish (Plating code: see page 16)

Clip-On Gaskets



other heights than 1.6 mm available

* 6.7 mm (Clip 0.8)

* 6.6 mm (Clip 1.0)

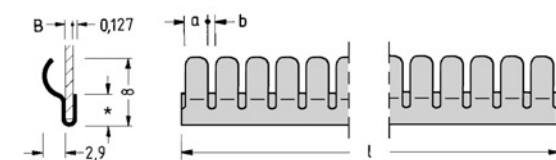
* 6.2 mm (Clip 1.5)

Form CL 1

Form	a mm	b mm	B mm	l mm	Part no.
CL 1	5.6	0.8	0.8	409	8901
CL 1-1	5.6	0.8	1.0	409	8901-1
CL 1-2	5.6	0.8	1.5	409	8901-2

Also available with D + T-Lances

Surface Finish and Plating Codes: see page 16



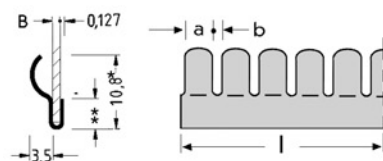
* CL2-1 = 7.8 mm

* CL2-2 = 4.75 mm

Form CL 2

Form	a mm	b mm	B mm	l mm	Part no.
CL 2	3.6	1.2	0.8	407	8902
CL 2-1	3.6	1.2	1.0	407	8902-1
CL 2-2	3.6	1.2	1.5	407	8902-2

Surface Finish and Plating Codes: see page 16



* CL3-3 = 10.5 mm

** CL3 = 5 mm

** CL3-1 = 4.8 mm

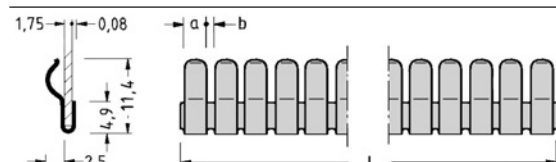
** CL3-2 = 4.3 mm

** CL3-3 = 4.5 mm

Form CL 3

Form	a mm	b mm	B mm	l mm	Part no.
CL 3	3.6	1.2	0.8	407	8903
CL 3-1	3.6	1.2	1.0	407	8903-1
CL 3-2	3.6	1.2	1.5	407	8903-2
CL 3-3	3.6	1.2	1.5	407	8903-3

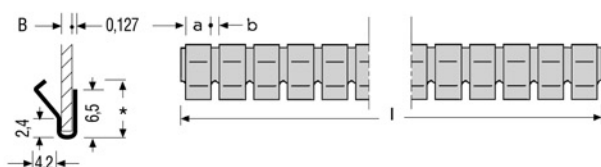
Surface Finish and Plating Codes: see page 16



Form CL 4

Form	a mm	b mm	l mm	Part no.
CL 4	3.6	1.2	407	8904

Surface Finish and Plating Codes: see page 16



* CL5 = 8.40 mm

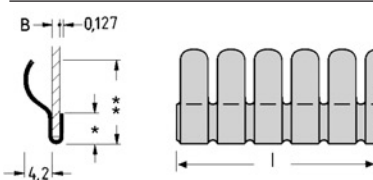
* CL5-1 = 8.10 mm

* CL5-2 = 8.15 mm

Form CL 5

Form	a mm	b mm	B mm	l mm	Part no.
CL 5	3.6	1.2	0,8	407	8905
CL 5-1	3.6	1.2	1.0	407	8905-1
CL 5-2	3.6	1.2	1.5	407	8905-2

Surface Finish and Plating Codes: see page 16



* CL6 = 4.8 mm

* CL6-1 = 5.1 mm

* CL6-2 = 4.8 mm

** CL6 = 14.65 mm

** CL6-1 = 13.95 mm

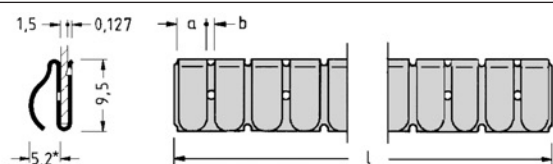
** CL6-2 = 14.10 mm

Form CL 6

Form	a mm	b mm	B mm	l mm	Part no.
CL 6	3.6	1.2	0.8	407	8906
CL 6-1	3.6	1.2	1.0	407	8906-1
CL 6-2	3.6	1.2	1.5	407	8906-2

Surface Finish and Plating Codes: see page 16

Clip-On Gaskets

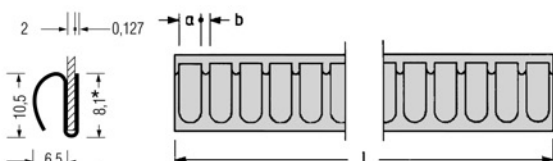


Form CL 7

*CL7-1 = 6.9 mm
also available with D + T-Lances
*CL7-2 = 7.9 mm

Form	a mm	b mm	l mm	Part no.
CL 7	5.32	1.04	406	8907
CL 7-1	5.32	1.04	406	8907-1
CL 7-2	5.32	1.04	406	8907-2

Surface Finish and Plating Codes: see page 16



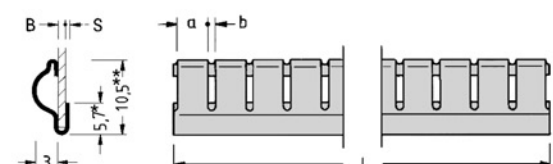
Form CL 8

*CL8-2 = 7.4 mm / Clip = 3 mm

Form	a mm	b mm	l mm	Part no.
CL 8	3.2	1.55	405	8908*
CL 8-1	8.0	1.55	405	8908-1*
CL 8-2	3.2	1.55	405	8908-2*

Surface Finish and Plating Codes: see page 16

* only available in CuBe



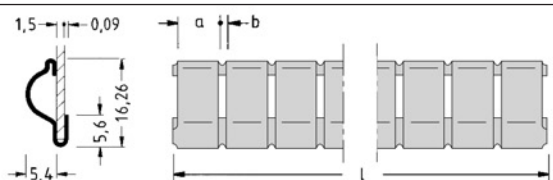
Form CL 9

*CL9-1 = 5.50 mm
*CL9-2 = 5.25 mm
*CL9-3 = 5.20 mm
**CL9-1 = 10.5 mm
**CL9-2 = 10.5 mm
**CL9-3 = 10.0 mm

Form	a mm	b mm	B mm	l mm	S mm	Part no.
CL 9	5.7	0.6	0.8	409	0.05	8909*
CL 9-1	5.7	0.6	1.0	409	0.05	8909-1*
CL 9-2	5.7	0.6	1.5	409	0.05	8909-2*
CL 9-3	5.7	0.6	2.0	409	0.05	8909-3*

Surface Finish and Plating Codes: see page 16

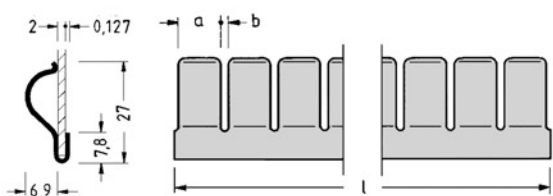
* only available in CuBe



Form CL 10

Form	a mm	b mm	l mm	Part no.
CL 10	8.7	0.8	455	8910

Surface Finish and Plating Codes: see page 16

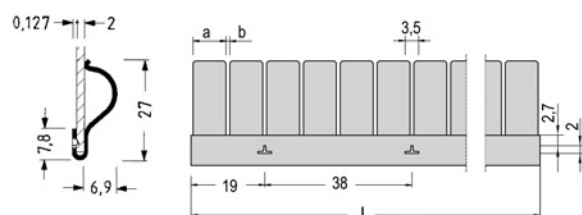


Form CL 11

Form	a mm	b mm	l mm	Part no.
CL 11	8.5	1.0	494	8911*

Surface Finish and Plating Codes: see page 16

* only available in CuBe



Form CL 12

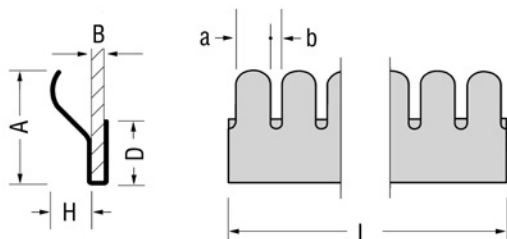
With T-Lance attachment as shown

Form	a mm	b mm	l mm	Part no.
CL 12	8.5	1.0	494	8912*

Surface Finish and Plating Codes: see page 16

* only available in CuBe

Clip-On Gaskets

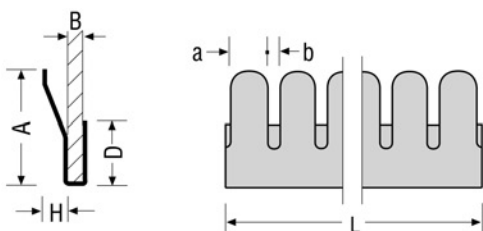


Material thickness 0.1 mm

Form CL 13 – CL 18

Form	a mm	b mm	A mm	B mm	D mm	H mm	L mm	Part no.
CL 13	3.56	1.22	15.2	1.0	7.4	5.3	406	8630
CL 14	3.56	1.22	15.2	1.5	6.9	5.3	406	8631
CL 15	3.56	1.22	15.2	2.0	6.4	5.3	406	8632
CL 16	3.6	1.2	8.3	1.0	6.3	2.5	407	8633
CL 17	3.6	1.2	8.3	1.5	5.8	2.5	407	8634
CL 18	3.6	1.2	8.3	2.0	5.4	2.5	407	8635

Surface Finish and Plating Codes: see page 16
Also available with T-Lances

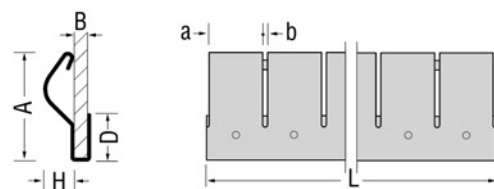


Material thickness 0.1 mm

Form CL 19 – CL 21

Form	a mm	b mm	A mm	B mm	D mm	H mm	L mm	Part no.
CL 19	3.6	1.2	11.4	1.0	6.9	2.5	407	8636
CL 20	3.6	1.2	11.4	1.5	6.4	2.5	407	8637
CL 21	3.6	1.2	11.4	2.0	5.8	2.5	407	8638

Surface Finish and Plating Codes: see page 16
Also available with T-Lances



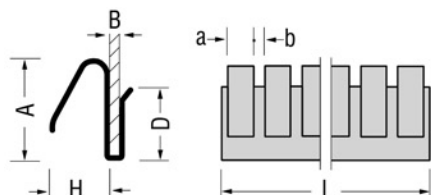
Material thickness 0.07 mm

Form CL 22 – CL 28

Form	a mm	b mm	A mm	B mm	D mm	H mm	L mm	Part no.
CL 22	5.85	0.5	11.7	1.0	6.1	3.0	457	8639*
CL 23	5.85	0.5	11.7	1.5	5.6	3.0	457	8640*
CL 24	5.85	0.5	11.7	2.0	5.1	3.0	457	8641*
CL 25	9.0	0.5	19.3	1.0	7.4	6.4	456	8642*
CL 26	9.0	0.5	19.3	1.5	6.9	6.4	456	8643*
CL 27	9.0	0.5	19.3	2.0	6.4	6.4	456	8644*
CL 28	9.0	0.5	19.3	3.0	5.3	6.4	456	8645*

Surface Finish and Plating Codes: see page 16
Also available with T-Lances
* only available in CuBe

Clip-On Gaskets



Material thickness

CL 32 – CL 35 : 0.15 mm

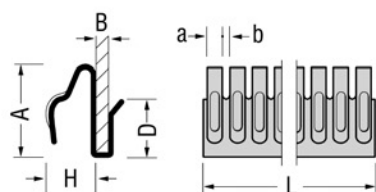
CL 36 – CL 37 : 0.08 mm

Form CL 29 – CL 37

Form	a mm	b mm	A mm	B mm	D mm	H mm	L mm	Part no.
CL 32*	3.2	1.55	12.25	1.0	8.25	7.2	407	8649
CL 33*	3.2	1.55	12.25	1.5	7.55	7.2	407	8650
CL 34*	3.2	1.55	12.25	2.0	7.55	7.2	407	8651
CL 35*	3.2	1.55	12.25	3.0	6.3	7.2	407	8652
CL 36	2.8	0.4	4.6	1.0	3.8	2.3	307	8653
CL 37	2.8	0.4	4.6	1.5	3.4	2.3	307	8654

Surface Finish and Plating Codes: see page 16

* Also available with D-Lances



Material thickness

CL 38 – CL 41 : 0.15 mm

CL 42 – CL 44 : 0.13 mm

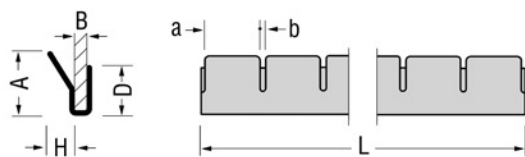
CL 45 – CL 46 : 0.08 mm

Form CL 38 – CL 46

Form	a mm	b mm	A mm	B mm	D mm	H mm	L mm	Part no.
CL 38	1.58	0.81	9.4	1.0	6.9	5.1	408	8655*
CL 39	1.58	0.81	9.4	1.5	6.4	5.1	408	8656*
CL 40	1.58	0.81	9.4	2.0	5.6	5.1	408	8657*
CL 41	1.5	0.5	9.4	3.0	4.6	5.1	408	8658*
CL 42	1.27	0.64	9.1	1.0	6.9	4.1	408	8659*
CL 43	1.27	0.64	9.1	1.5	6.9	4.1	408	8660*
CL 44	1.27	0.64	9.1	2.0	5.6	4.1	408	8661*
CL 45	1.09	0.51	6.1	1.0	5.3	2.8	406	8662*
CL 46	1.09	0.51	6.1	1.5	4.8	2.8	406	8663*

Surface Finish and Plating Codes: see page 16

* only available in CuBe



Material thickness 0.08 mm

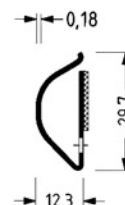
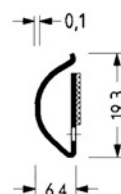
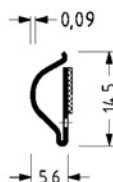
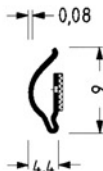
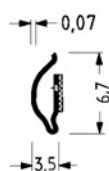
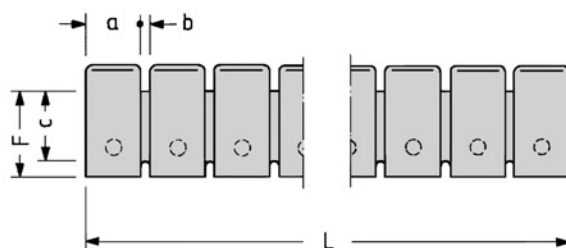
Form CL 47 – CL 49

Form	a mm	b mm	A mm	B mm	D mm	H mm	L mm	Part no.
CL 47	3.8	0.4	4.8	0.8	3.0	1.3	306	8664
CL 48	3.8	0.4	4.8	1.0	2.8	1.3	306	8665
CL 49	3.8	0.4	4.8	1.5	2.3	1.3	306	8666

Surface Finish and Plating Codes: see page 16

Also available with D-Lances

Curved Fingers



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

Form

V10

V11

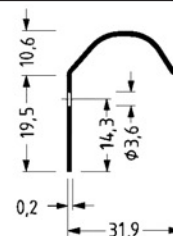
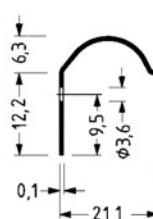
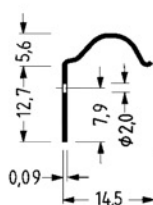
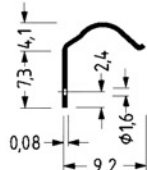
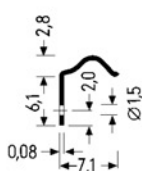
V12

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 CuBe



Form

V15-1

V15

V16

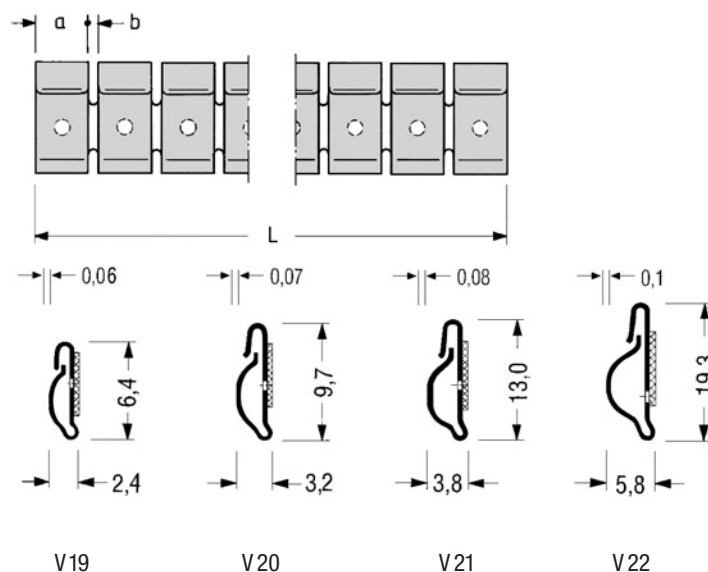
V17

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 CuBe

Slippy Fingers



Form

V19

V20

V21

V22

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

Form	a mm	b mm	Ø mm	L mm	Part no.
V19	4.32	0.46	1.5	406	9030 *
				7620	9031 *
V20	4.32	0.46	1.5	406	9032 *
				7620	9033 *
V21	5.79	0.56	1.5	406	9034 *
				7620	9035 *
V22	8.71	0.81	1.5	608	9036 *
				7620	9037 *

* only available in CuBe

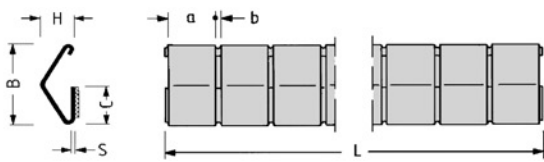
Contact strips made of stainless steel

Curved and slippy fingers can be used to shield housings, enclosures and panels very effectively against interference. They are optimal to use when space is short. Assembly is extremely simple as the rear side of the strip is provided with two-sided adhesive strip.

Extensive soldering, riveting or bolting is therefore not necessary. The measured attenuation values are excellent. Magnetic field: at 14 KHz more than 46 dB. Plane waves: at 10 GHz approx. 108 dB.

Slippy fingers are a further development of the curved fingers, whereby the free part of the finger is retained within a channel and is therefore protected against damage. As compression increases, the fingers will slide further into the channel.

Grounding and Shield Strips

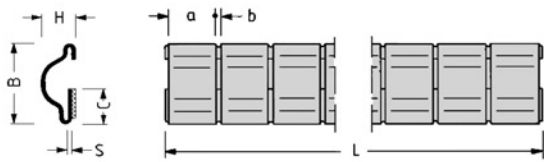


Form W1-W5

Surface Finish and Plating Codes: see page 16

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

Form	a mm	b mm	C mm	H mm	B mm	S mm	L mm	Part no.
W1	4.3	0.5	5.3	2.8	8.8	0.05	408	9040
W2	5.7	0.6	5.3	3.3	9.4	0.05	409	9041
W3	8.7	0.8	7.2	5.7	15.2	0.08/0.05	608	9042
W4	8.7	0.1	11.2	8.1	19.8	0.10	455	9043
W5	11.7	1.0	19.8	10.4	27.9	0.10	455	9044



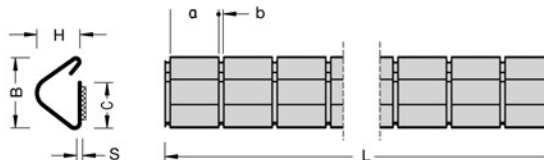
Form W6-W9

Surface Finish and Plating Codes: see page 16

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

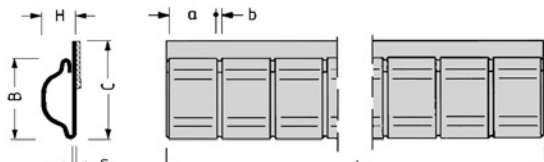
Form	a mm	b mm	C mm	H mm	B mm	S mm	L mm	Part no.
W6	4.3	0.5	5.4	2.5	8.1	0.09	408	9045 *
W7	5.7	0.6	5.25	3.3	9.4	0.09	406	9046 *
W8	3.9	0.8	7.4	5.6	15.2	0.09	455	9047 *
W9	8.7	0.8	7.4	5.6	15.2	0.09	456	9048 *
W10	5.7	0.6	5.45	5.15	8.4	0.05	409	9049

* only available in CuBe



Form W10

Surface Finish and Plating Codes: see page 16

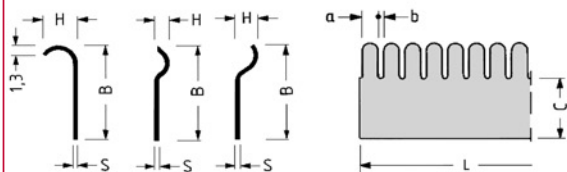


Form W12

Surface Finish and Plating Codes: see page 16

Form	a mm	b mm	C mm	H mm	B mm	S mm	L mm	Part no.
W12	8.72	0.8	19.8	5.6	15.2	0.09	456	9051

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



Form J1

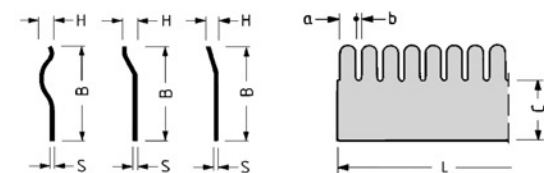
J2

J3

Surface Finish and Plating Codes: see page 16

Form	a mm	b mm	C mm	H mm	B mm	S mm	L mm	Part no.
J1	3.56	1.22	16.0	5.8	19.6	0.13	407	9060 *
J2	3.56	1.22	16.0	2.3	22.6	0.13	407	9061 *
J3	3.56	1.22	16.0	3.3	22.6	0.13	407	9062 *

* only available in CuBe



Form J4

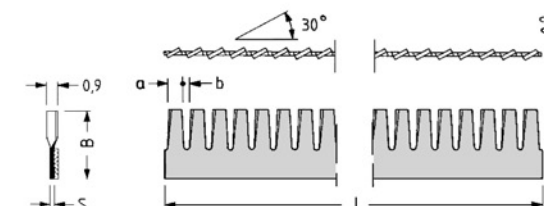
J5

J6

Surface Finish and Plating Codes: see page 16

Form	a mm	b mm	C mm	H mm	B mm	S mm	L mm	Part no.
J4	3.56	1.22	16.0	2.3	23.4	0.13	406	9063 *
J5	3.56	1.22	16.0	2.3	23.4	0.13	406	9064 *
J6	3.56	1.22	16.0	2.3	23.4	0.13	406	9065 *

* only available in CuBe



Form Z

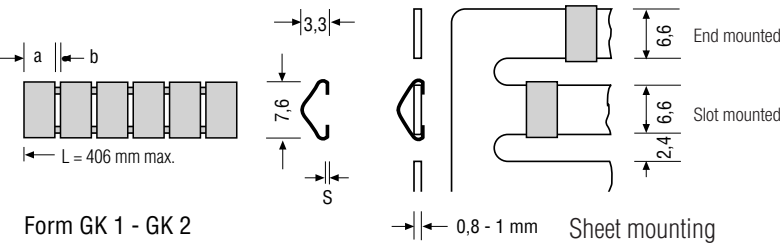
Surface Finish and Plating Codes: see page 16

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

Form	a mm	b mm	C mm	B mm	S mm	L mm	Part no.
Z	1.65	0.76	4.1	9.1	0.13	407	9070

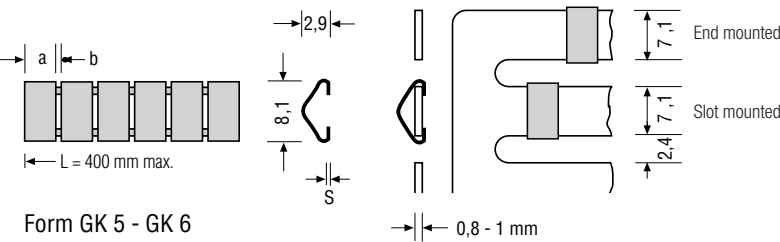
L also to customer specifications.

Slot-Mount Shields in Strips or Short Lengths



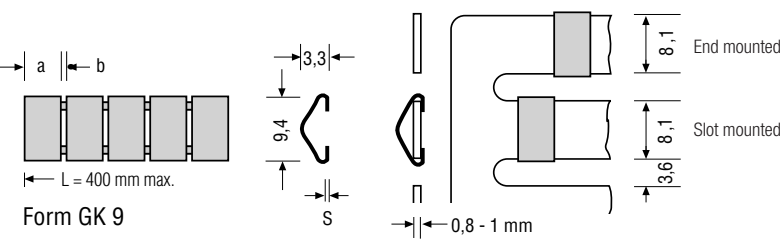
Surface Finish and Plating Codes: see page 16

Form	a mm	b mm	S mm	Part no.
GK 1	4.3	0.5	0.05	9701
GK 2	4.3	0.5	0.09	9702



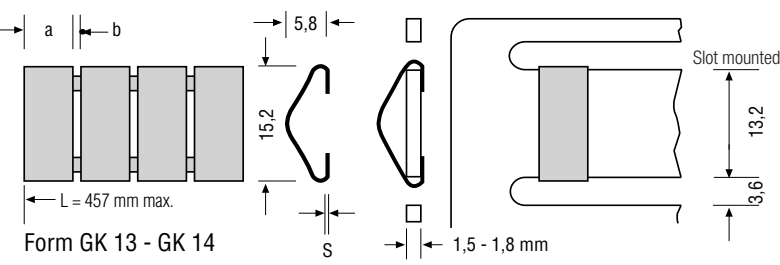
Surface Finish and Plating Codes: see page 16

Form	a mm	b mm	S mm	Part no.
GK 5	4.3	0.5	0.05	9705
GK 6	4.3	0.5	0.09	9706



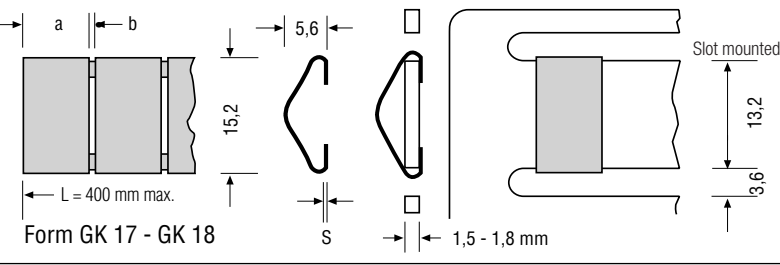
Surface Finish and Plating Codes: see page 16

Form	a mm	b mm	S mm	Part no.
GK 9	5.7	0.6	0.05	9709



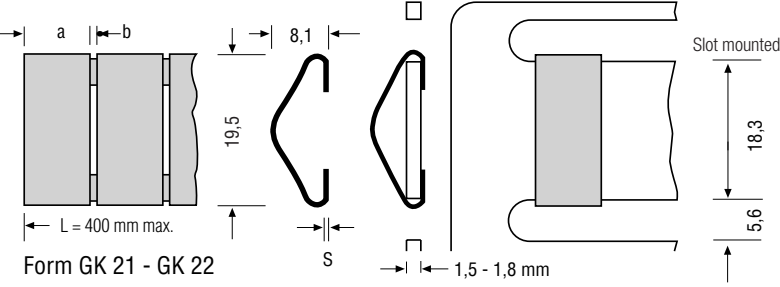
Surface Finish and Plating Codes: see page 16

Form	a mm	b mm	S mm	Part no.
GK 13	6.4	0.8	0.08	9713
GK 14	6.4	0.127	0.13	9714



Surface Finish and Plating Codes: see page 16

Form	a mm	b mm	S mm	Part no.
GK 17	8.7	0.8	0.05	9717
GK 18	8.7	0.8	0.10	9718

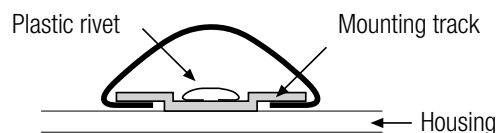


Surface Finish and Plating Codes: see page 16

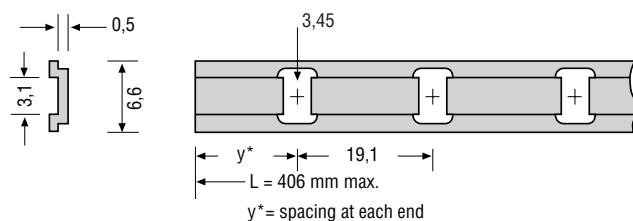
Form	a mm	b mm	S mm	Part no.
GK 21	8.7	0.8	0.08	9721
GK 22	8.7	0.8	0.10	9722

Mounting Tracks and Accessories

Mounting on riveted track

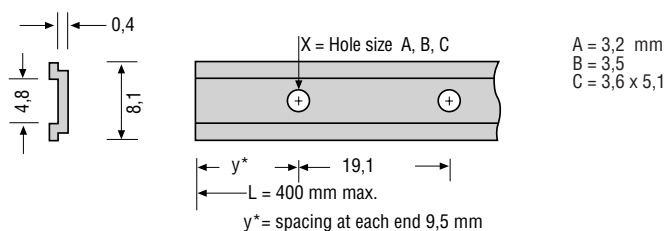


Instead of slots in the housing, a mounting track can be used for the shields with a T-end-piece.



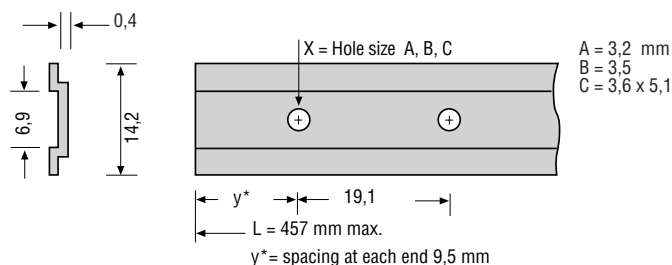
Mounting track	Part no.
MS 2 for GK 5 - 6	9730

Material: Stainless steel



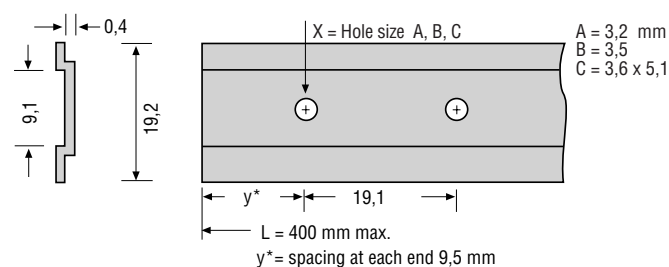
Mounting track	Part no.
MS 3 for GK 9	9735

Material: Brass



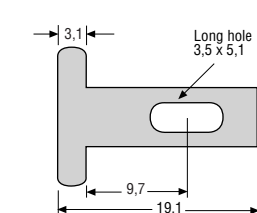
Mounting track	Part no.
MS 4 for GK 13 - 18	9740

Material: Brass

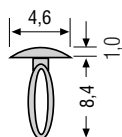


Mounting track	Part no.
MS 5 for GK 21 - 22	9745

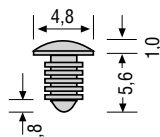
Material: Brass



TE 1 - 3



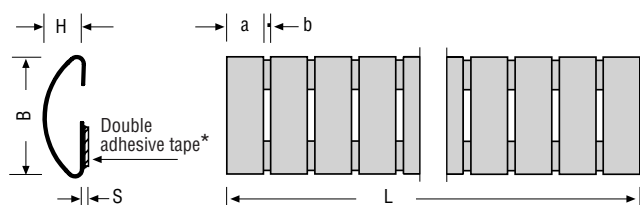
NE 1



NE 2

T-end-piece	Part no.
TE 1 for GK 9	9750
TE 2 for GK 13 - 18	9751
TE 3 for GK 21 - 22	9752
Plastic rivet	
NE 1 for sheet 0.5 - 1.5 mm	9754
NE 2 for sheet 1.1 - 1.9 mm	9755

Rounded Shields

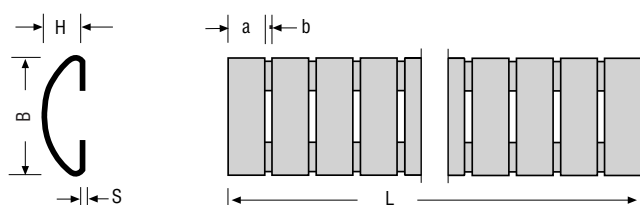


Form HR 1 - 3 *HR 1 = 4,1 HR 2 = 6,5 HR 3 = 7
HR 1 - HR 3 not equal-sided

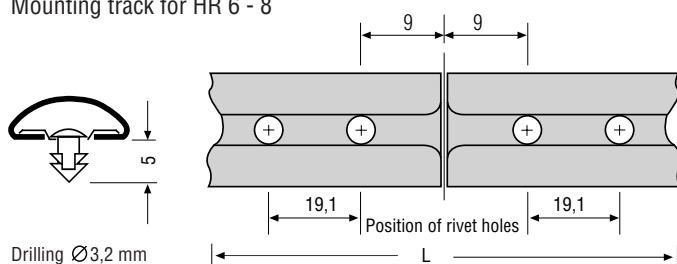
Form	a mm	b mm	H mm	B mm	S mm	L mm	Part no.
HR 1	4.3	0.5	2.8	9.1	0.08	403	9760
HR 2	5.8	0.6	3.6	11.4	0.08	383	9761*
HR 3	8.8	0.8	5.6	15.8	0.10	379	9762*

Surface Finish and Plating Codes: see page 16
* only available in CuBe

The shields can also be mounted on riveted track. Ideal for bi-directional load.



Mounting track for HR 6 - 8

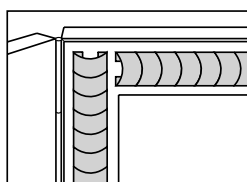


Form	B mm	H mm	No. of rivets	Part no.
HR 6	9.1	2.8	10	9763
HR 7	11.4	3.6	10	9764*
HR 8	15.8	5.6	10	9765*

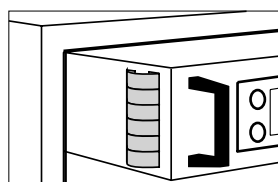
Surface Finish and Plating Codes: see page 16
* only available in CuBe

Form	A mm	L mm	Part no.
MS 6	8.1	400	9763
MS 7	11.0	381	9764
MS 8	15.2	381	9765

Material: Brass or stainless steel



HR 1 - HR 3



HR 6 - HR 8

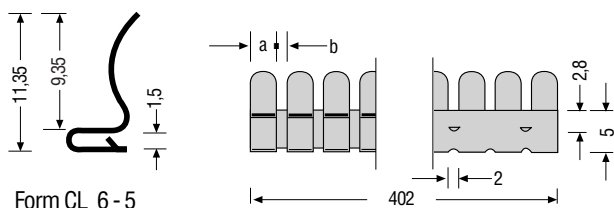
Examples of typical application

Surface finishes for all shields

You can choose from a range of surface finishes. Just add the code for the finish you want to the Part no. in your order. Thus 8906.00.02 means a shield form CL6 with bright surface finish.

Surface Code	Finish and Plating Codes Required Finish
- 02	bright finish
- 03	gold
- 04	silver
- 15	zinc chromate/clear
- 17	bright tin
- 19	bright nickel
	or to customer specification

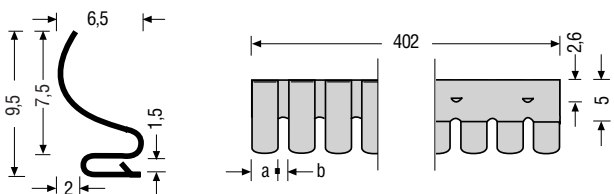
PCB Contact Fingers (Clip-On)



Form CL 6 - 5

Form	a mm	b mm	Part no.
CL 6 - 5	3.6	1.2	8906 - 5

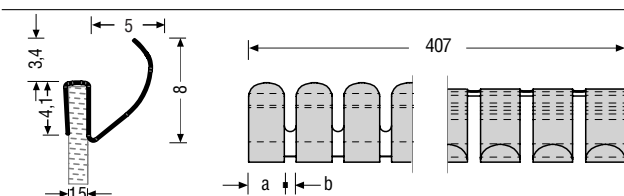
Material thickness: 0.127 mm
Surface Finish and Plating Codes: see page 16



Form CL 6 - 6

Form	a mm	b mm	Part no.
CL 6 - 6	3.6	1.2	8906 - 6

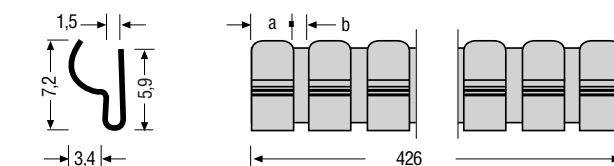
Material thickness: 0.127 mm
Surface Finish and Plating Codes: see page 16



Form CL 6 - 7

Form	a mm	b mm	Part no.
CL 6 - 7	3.6	1.2	8906 - 7

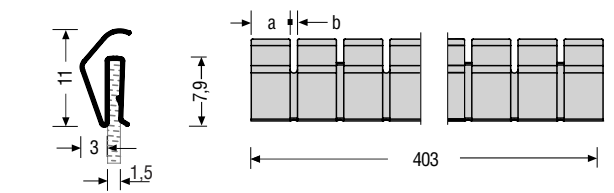
Material thickness: 0.127 mm
Surface Finish and Plating Codes: see page 16



Form CL 3 - 2

Form	a mm	b mm	Part no.
CL 3 - 2	3.6	1.2	8903 - 2

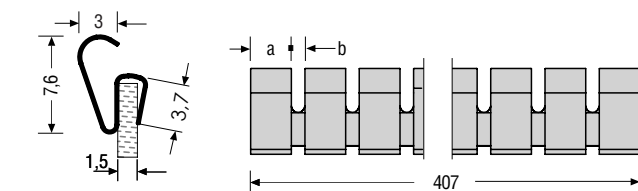
Material thickness: 0.127 mm
Surface Finish and Plating Codes: see page 16



Form CL 57

Form	a mm	b mm	Part no.
CL 57	5.31	1.0	8669

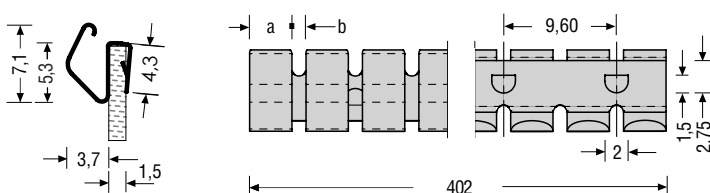
Material thickness: 0.08 mm
Surface Finish and Plating Codes: see page 16



Form CL 58

Form	a mm	b mm	Part no.
CL 58	3.6	1.2	8918

Material thickness: 0.08 mm
Surface Finish and Plating Codes: see page 16



Form CL 59

Form	a mm	b mm	Part no.
CL 59	3.6	1.2	8917

Material thickness: 0.08 mm
Surface Finish and Plating Codes: see page 16

PCB Contact Fingers (Clip-On)

Form CL 60 M

Surface Finish and Plating Codes: see page 16

Form	a mm	b mm	Part no.
CL 60 M	3.6	1.2	8913-M

Material thickness: 0.08 mm

Form CL 60

Surface Finish and Plating Codes: see page 16

Form	a mm	b mm	Part no.
CL 60	9.0	0.8	8913

Material thickness: 0.08 mm

Form CL 61

Surface Finish and Plating Codes: see page 16

Form	a mm	b mm	Part no.
CL 61	5.6	0.8	8914*

Material thickness: 0.127 / 0.08 mm
* only available in CuBe

Form CL 62

Surface Finish and Plating Codes: see page 16

Form	a mm	b mm	Part no.
CL 62	12.68	1.14	8915*

Material thickness: 0.07 mm * only available in CuBe

Form CL 63

Surface Finish and Plating Codes: see page 16

Form	a mm	b mm	Part no.
CL 63	3.0	1.0	8916*
CL 63-1	3.0	1.0	8916-1*

Material thickness: 0.09 mm * only available in CuBe

Form CL 63-1 = Clip 1.5

Low Profile Gaskets

Form NP

Form	a mm	b mm	C mm	H mm	B mm	S mm	L mm	Part no.
NP2	2.5	0.6	6.0	2.0	11.4	0.05	406	2001
NP3	2.5	0.6	8.2	3.0	15.2	0.05	406	2002

with double adhesive transfer tape

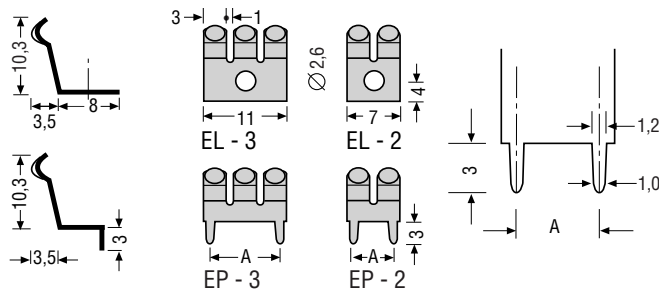
Low Profile Gaskets, Hook-On Type

Form NPH

Form	a mm	b mm	C mm	H mm	B mm	S mm	L mm	Part no.
NPH	2.5	0.6	6.0	1.5	11.4	0.05	406	2003
NPH	2.5	0.6	8.2	2.3	15.2	0.05	406	2004

with double adhesive transfer tape

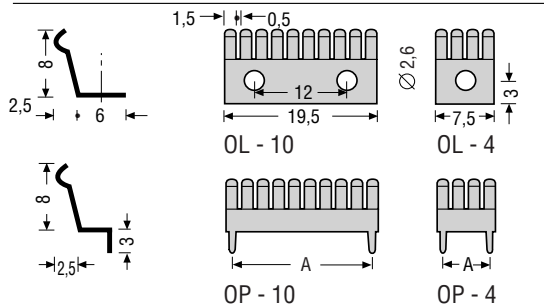
PCB Contact Fingers with Hole/Pins



Surface Finish and
Plating Codes: see page 16

Form	No. of fingers	A mm	Part no.
EL - 3	3	-	8920
EL - 2	2	-	8921
EP - 3	3	10	8925
EP - 2	2	5	8926

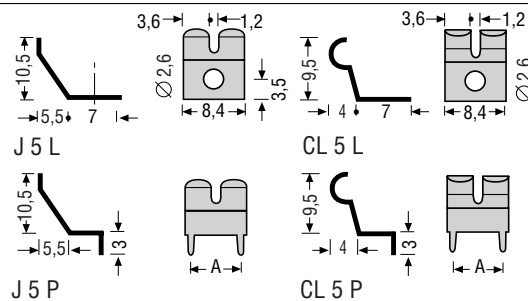
Material thickness: 0.2 mm



Surface Finish and
Plating Codes: see page 16

Form	No. of fingers	A mm	Part no.
OL	10	-	8930
	4	-	8931
OP	10	17.5	8935
	4	5	8936

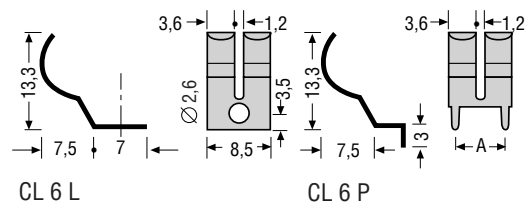
Material thickness: 0.15 mm



Surface Finish and
Plating Codes: see page 16

Form	No. of fingers	A mm	Part no.
J 5 L	2	-	8940
J 5 P	2	5	8941
CL 5 L	2	-	8945
CL 5 P	2	5	8946

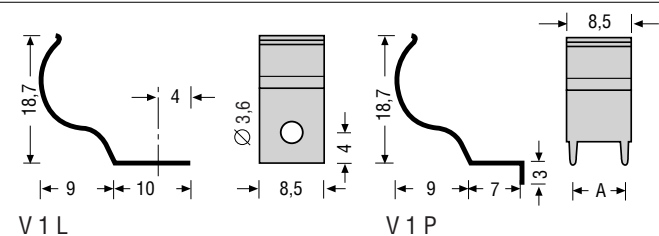
Material thickness: 0.127 mm



Surface Finish and
Plating Codes: see page 16

Form	No. of fingers	A mm	Part no.
CL 6 L	2	-	8950
CL 6 P	2	5	8955

Material thickness: 0.127 mm

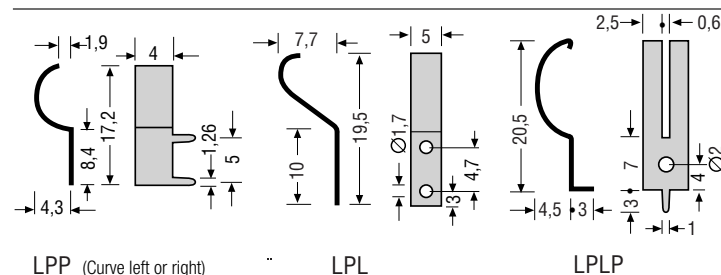


Surface Finish and
Plating Codes: see page 16

Form	No. of fingers	A mm	Part no.
V 1 L	1	-	8960 *
V 1 P	1	5	8965 *

Material thickness: 0.127 mm

* only available in CuBe



LPP (Curve left or right)

LPL

LPLP

Form	No. of fingers	A mm	Part no.
L P P	1	-	8970 *
L P L	1	-	8980
L P L P	2	-	8990

Material thickness: LPP=0.15 LPL=0.15 LPLP=0.15 mm

* please state r (right) or l (left) for ordering

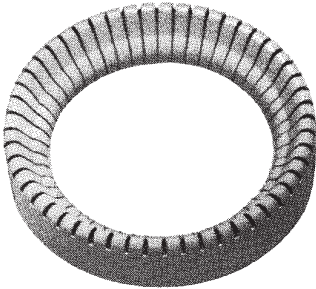
Alterations possible if required

Contact Strips and Rings

for Radio Amateurs

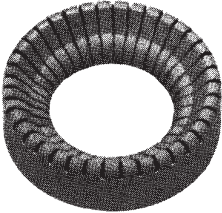
For tube 2 C 39 BA

Anode Contact Ring



Form Q
Ø 33 mm*

Grid Contact Ring



Form Q
Ø 23.5 mm*

Form S
Ø 19.5 mm*

Cathode Contact Ring



Form R
Ø 9.25 mm*

Form S
Ø 12.6 mm*

Heating Contact

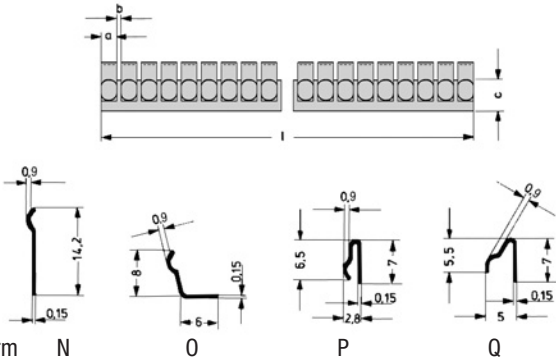


7

8

22

*Outer diameters



Form

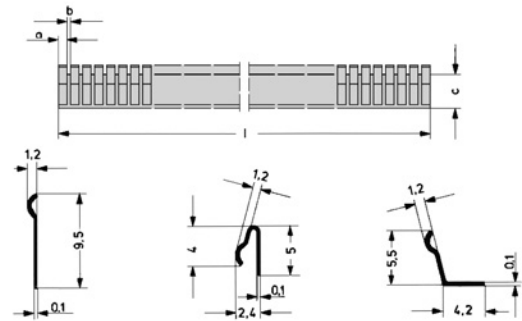
N

O

P

Q

Form	a mm	b mm	c mm	l mm	Part no.
N	1.5	0.5	5.5	500	8113
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



Form

R

S

T

Form	a mm	b mm	c mm	l mm	Part no.
R	1.0	0.5	3.2	500	8117
S	1.0	0.5	3.2	500	8118
T	1.0	0.5	3.2	500	8119

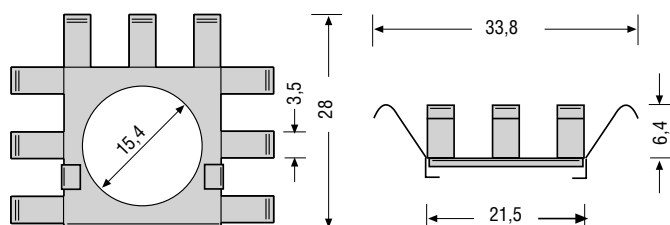
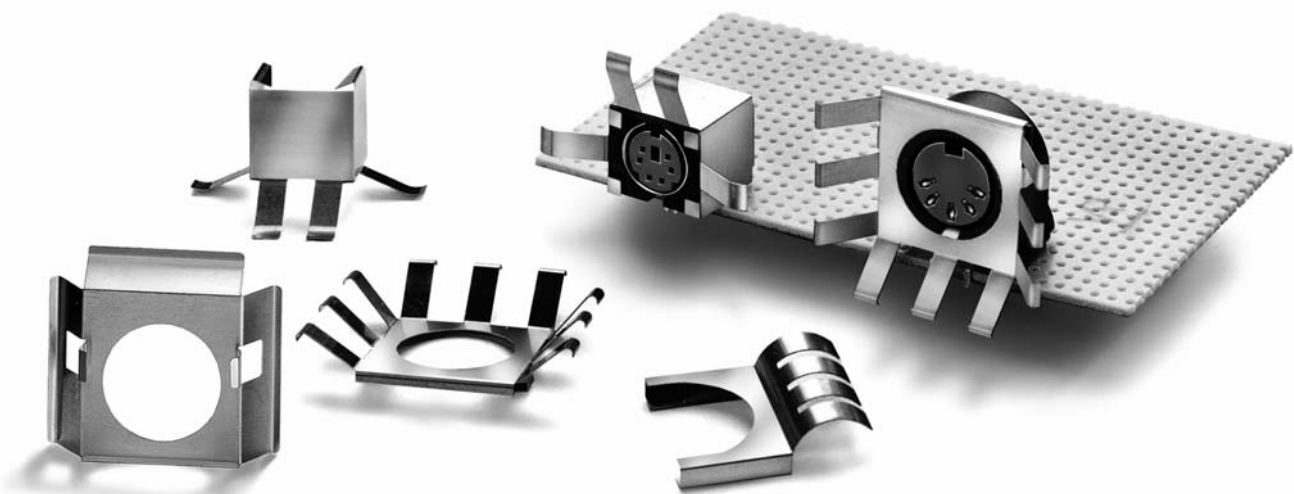
Material Options

Material: hardened or unhardened
Finish: bright finish or silver-plated
Material in stock:
hardened and bright finish or hardened
and silver-plated 4–6µm

Components

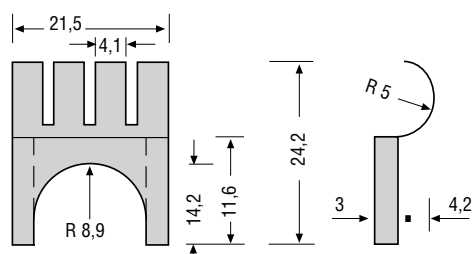
As a single finger, contact strip or contact ring.
Contact strips are carried as stock items.
Almost all contact strips can be formed
into contact rings by the user.

DIN Connector Gaskets



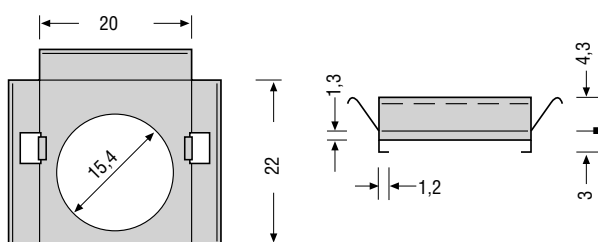
Part no.
9540

Material: CuBe 2
Material thickness: 0.2 mm
Surface Finish and Plating Codes: see page 16



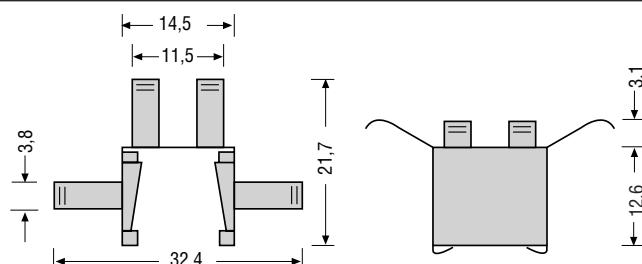
Part no.
9550

Material: CuBe 2
Material thickness: 0.2 mm
Surface Finish and Plating Codes: see page 16



Part no.
9560

Material: CuBe 2
Material thickness: 0.2 mm
Surface Finish and Plating Codes: see page 16



Part no.
9570

Material: CuBe 2
Material thickness: 0.12 mm
Surface Finish and Plating Codes: see page 16

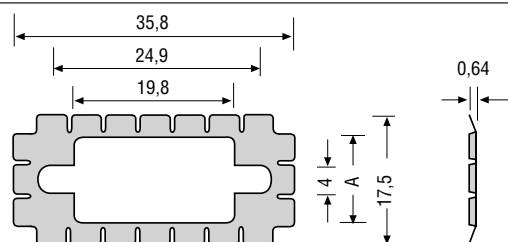
"D"-Connector Shields with Contact Fingers



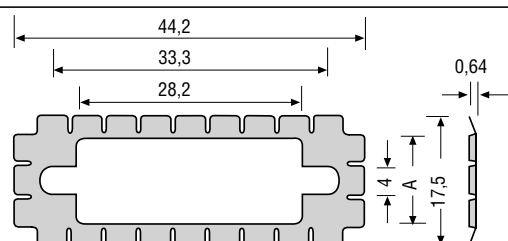
"D"-connector shields for shielding and grounding of "D" sub-miniature connectors with 9, 15, 25, 37 or 50 pins. With 20° angled contact fingers.

See also our silicone-based "D"-connector shields, p. 33

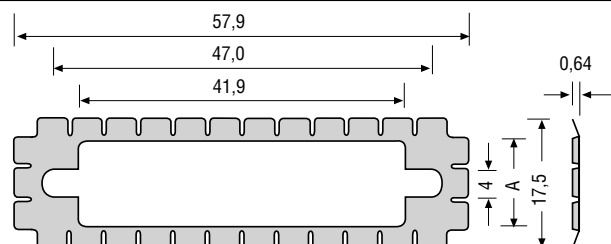
Material: CuBe or VA. Whole range of surface finishes available with CuBe.



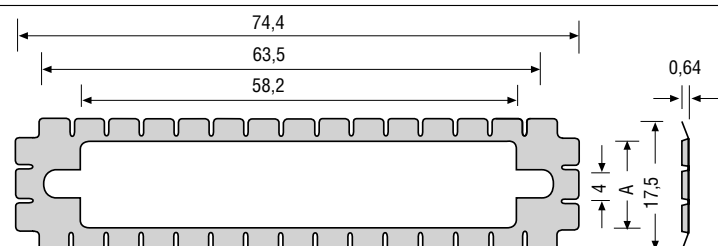
A		Part no.	
Pins	mm	VA	CuBe
9	11.2	9506	9526
	8.9	9507	9527



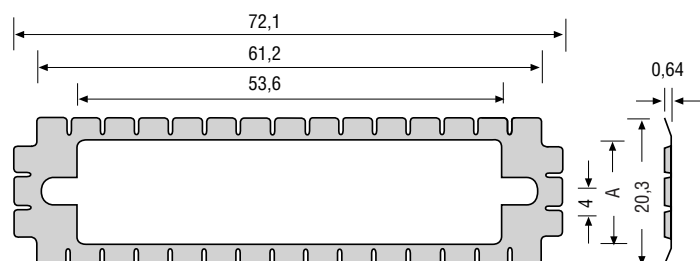
A		Part no.	
Pins	mm	VA	CuBe
15	11.2	9508	9528
	8.9	9509	9529



A		Part no.	
Pins	mm	VA	CuBe
25	11.2	9510	9530
	8.9	9511	9531



A		Part no.	
Pins	mm	VA	CuBe
37	11.2	9512	9532
	8.9	9513	9533



A		Part no.	
Pins	mm	VA	CuBe
50	14.0	9514	9534
	11.4	9515	9535