SHIELDING SOLUTIONS

COMPANY PROFILE

TEMAS engineering is a small Company which developed the know how in manufacturing industrial components since 1976, when the first family Company started working out various specializations in the automotive field, developing products in stainless steel and other technological materials.

Since 2001 ***TEMAS engineering*** is producing EMI/RFI gaskets, EMC solutions and has gained a deep expertise in shielding techniques for industrial and military electronics equipment.

Our product lines consist of a wide range of **fingerstock gaskets**(present catalogue), shielding gaskets, EMI/RFI optical filters and air ventilation/filtration panels.
All the articles can reduce the electromagnetic noise usually associated with electronics and are installed inside or around the enclosures or cabinets containing it. The dimension of these enclosures may be as small as a pace-maker, or as large as a shelter for telecommunications.

Manufacturing capability of ***TEMAS engineering*** is of medium and long running production, including quick prototyping, customizing and shielding needs characterization.
We serve many fields, such as electronics industries, telecommunications, aerospace, information technology, HF tooling equipment, medical devices.

For advice on application and designing for EMC (Electro-Magnetic Compatibility) please contact us at one of the addresses shown at the bottom of each page of this catalogue.

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 1.13 W/cm °C
Vickers hardness:	350-430
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. Plating codes: see page 16
- 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 (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

TEMAS engineering srl - via Milano, 72 - 22070 Bregnano (CO) - ITALY
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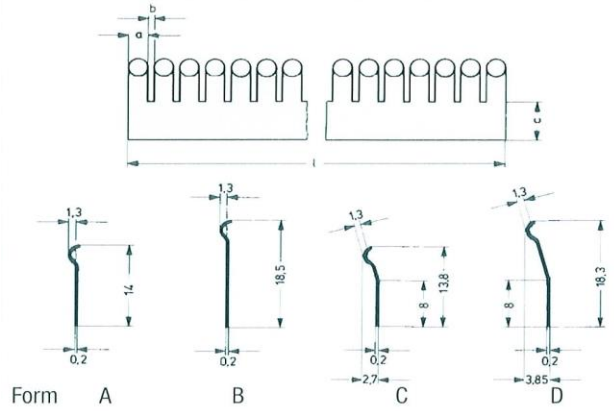
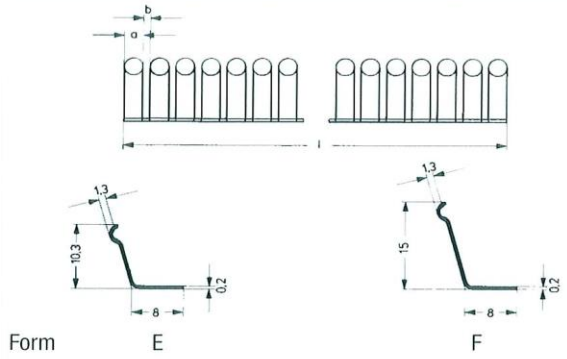
TEMAS
SHIELDING SOLUTIONS

CONTACT STRIPS



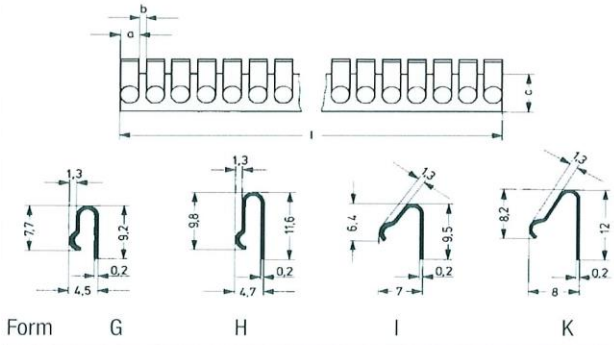
Form	a mm	b mm	c mm	l mm	Part no.
A	3	1	6.5	499	8101
B	3	1	6.5	499	8102
C	3	1	6.5	499	8103
D	3	1	6.5	499	8104

Surface Finish and Plating Codes: see page 16



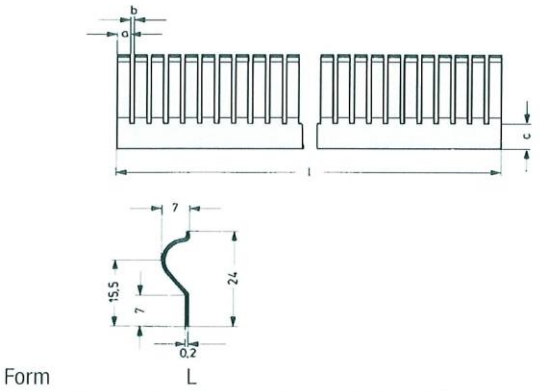
Form	a mm	b mm	c mm	l mm	Part no.
E	3	1	6.5	499	8105
F	3	1	6.5	499	8106

Surface Finish and Plating Codes: see page 16



Form	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

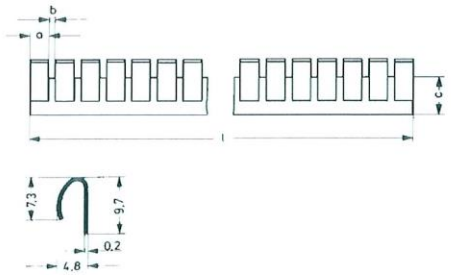
Surface Finish and Plating Codes: see page 16



Form	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

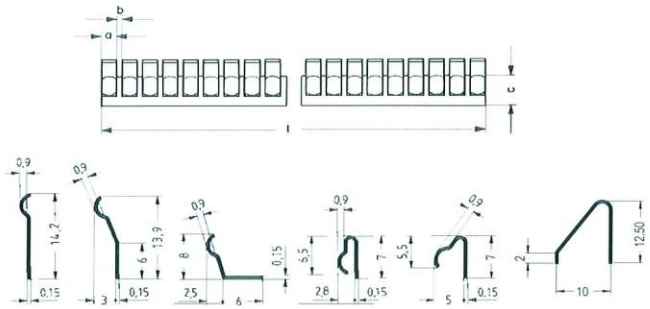
CONTACT STRIPS



Form M

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

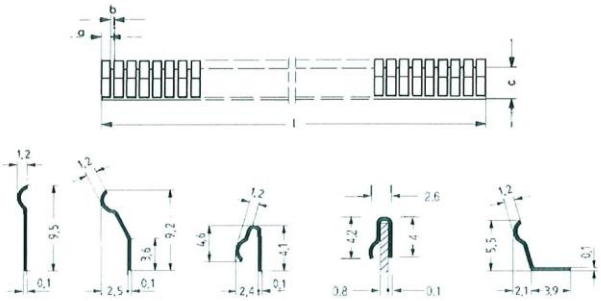
Surface Finish and Plating Codes: see page 16



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

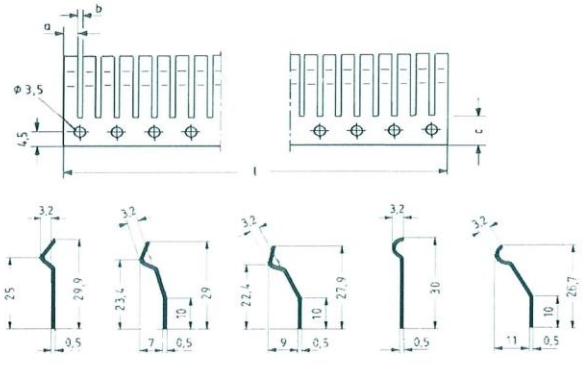
Surface Finish and Plating Codes: see page 16



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

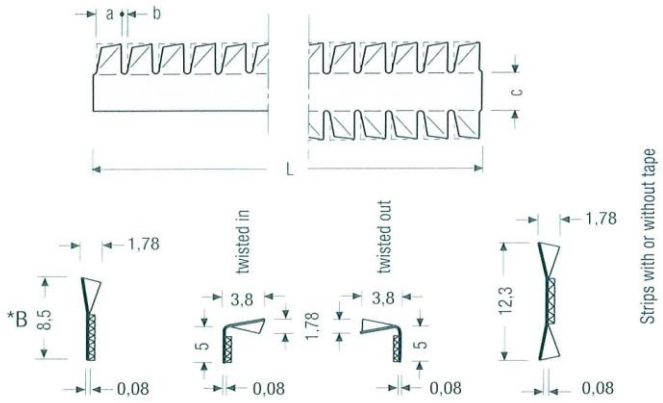


Form U U1 U2 U10 U11

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

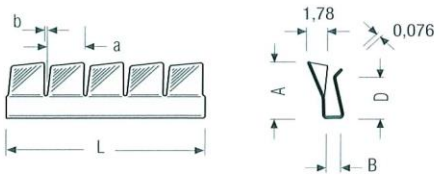
Surface Finish and Plating Codes: see page 16

TWISTED CONTACT STRIPS



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

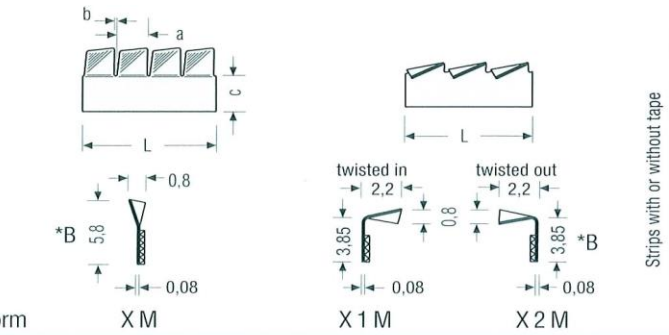


Form X 3, X 4

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

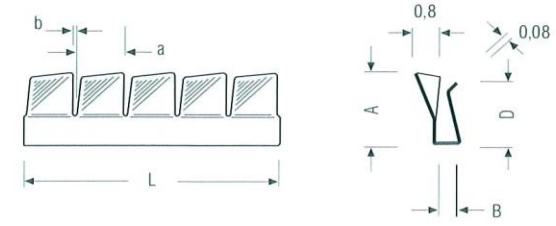
Also available with lances

MINI-TWISTED CONTACT STRIPS



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



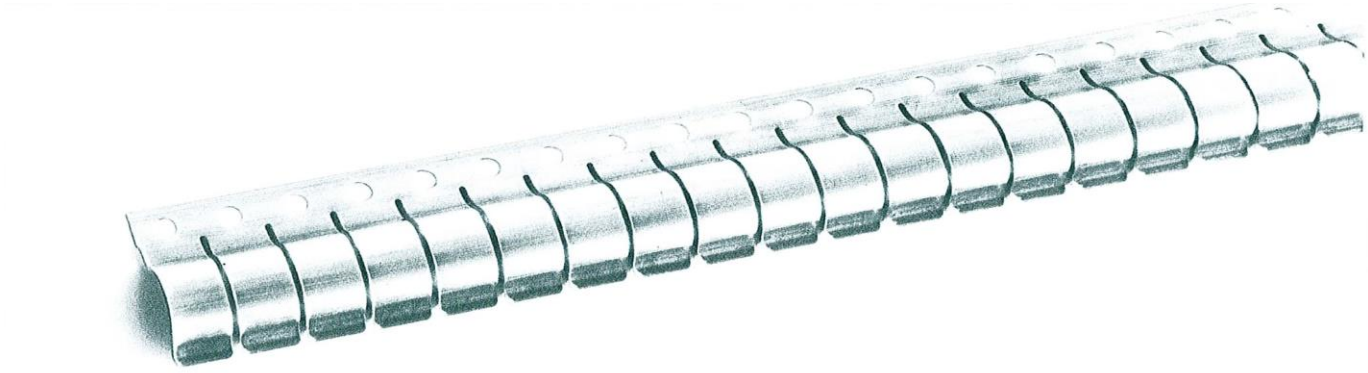
Form X 5 to X 10

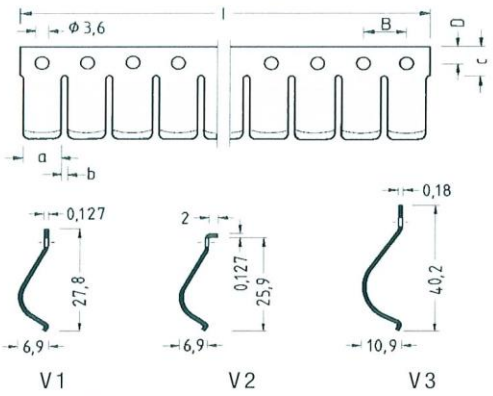
Form	a	b	A	B	D	L	Part no.
X5	2.0	0.4	3.8	1.0	3.7	405 mm	8616
X6	2.0	0.4	3.8	1.5	3.5	405 mm	8617
X7	2.0	0.4	4.7	1.0	4.5	405 mm	8618
X8	2.0	0.4	4.3	1.5	4.4	405 mm	8619
X9	2.0	0.4	5.9	1.0	4.7	405 mm	8620
X10	2.0	0.4	5.9	1.5	4.3	405 mm	8621

X 5 and X 6 also available with lances

TEMAS
SHIELDING SOLUTIONS

RFI-EMI SHIELDING





* 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 > 100 dB at 100 MHz

Application

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

Monting

Using rivets, screws or soldering

Ordering example

Contact strip Form V2 / Part no. 8801, Beryllium-Copper material, standard length

--> BC 8801-02

└── bright finish

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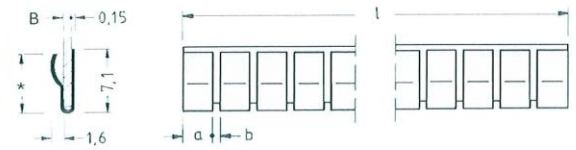
CLIP-ON GASKETS

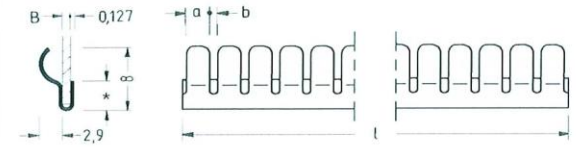


Form CL 1

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	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

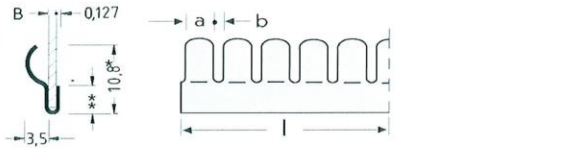


Form CL 2

* CL2-1 = 7.8 mm
* CL2-2 = 4.75 mm

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

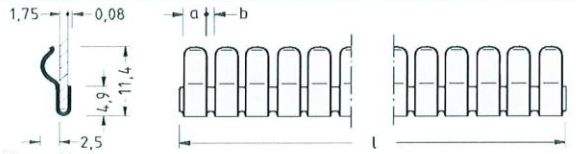


Form CL 3

*CL3-3 = 10.5 mm
**CL3 = 5 mm
**CL3-1 = 4.8 mm
**CL3-2 = 4.3 mm
**CL3-3 = 4.5 mm

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

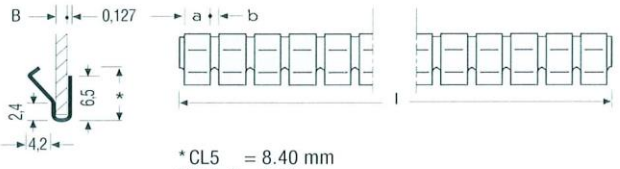
Surface Finish and Plating Codes: see page 16



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

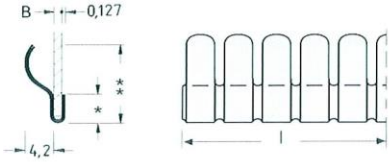


Form CL 5

* CL5 = 8.40 mm
* CL5-1 = 8.10 mm
* CL5-2 = 8.15 mm

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



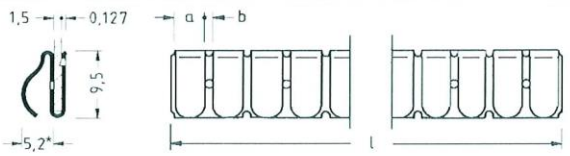
Form CL 6

*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	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

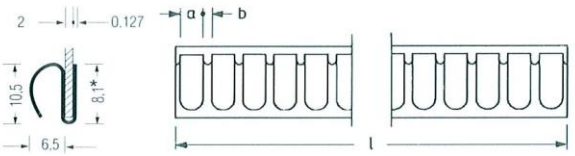


Form CL 7

*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

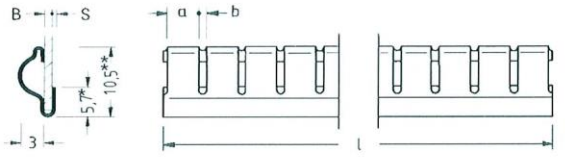


Form CL 8

*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

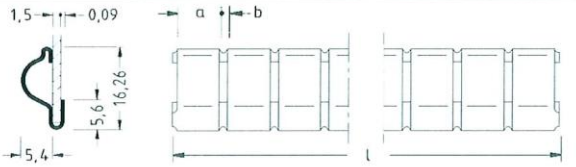


Form CL 9

*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*

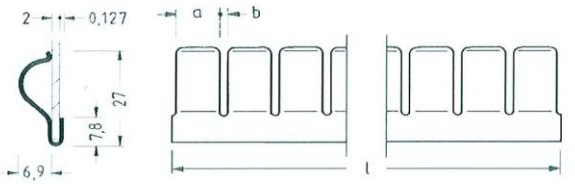
Surface Finish and Plating Codes: see page 16
* only available in CuBe



Form CL 10

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

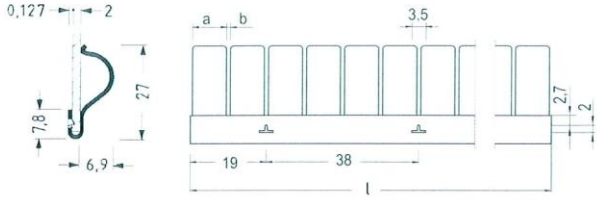
Surface Finish and Plating Codes: see page 16



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

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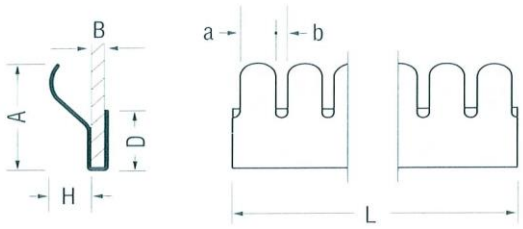
CLIP-ON GASKETS

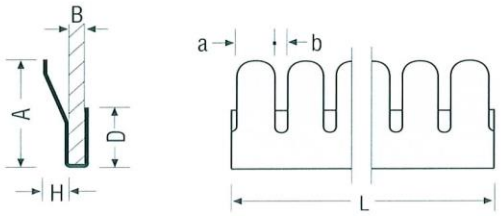


Material thickness 0.1 mm

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

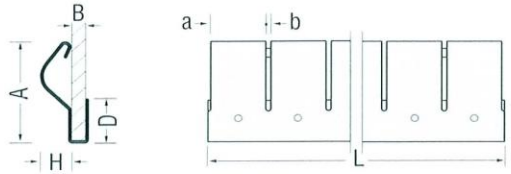


Material thickness 0.1 mm

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



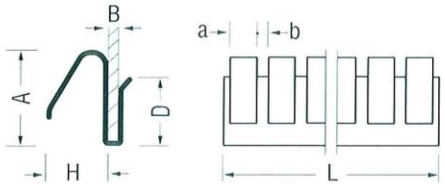
Material thickness 0.07 mm

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

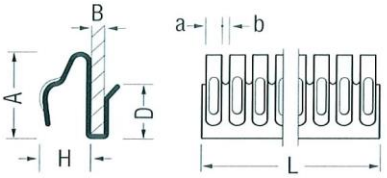


Material thickness
CL 32 – CL 35 : 0.15 mm
CL 36 – CL 37 : 0.08 mm

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

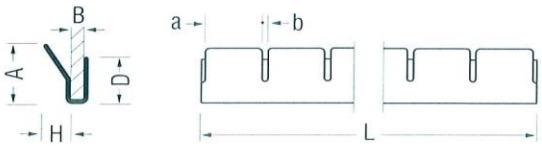


Material thickness
CL 38 – CL 41 : 0.15 mm
CL 42 – CL 44 : 0.13 mm
CL 45 – CL 46 : 0.08 mm

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

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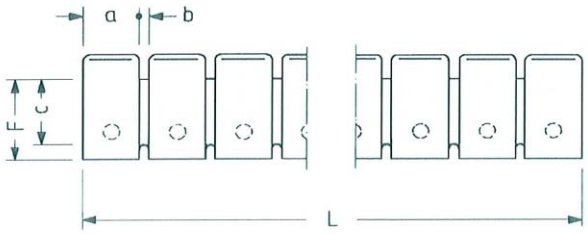
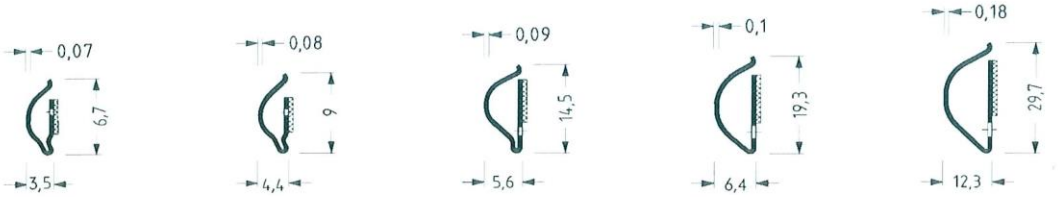
CURVED FINGERS



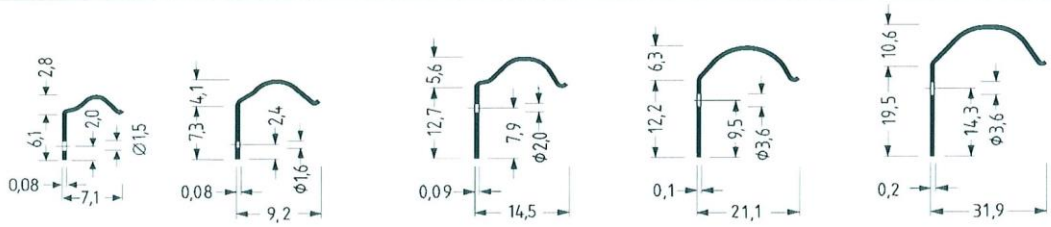


All contact strips are provided with two-sided adhesive strip.

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



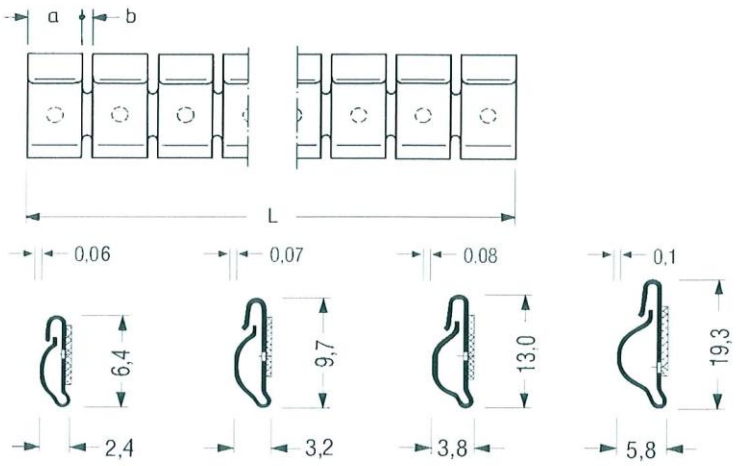
Form	V15-1	V15	V16	V17	V18

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

SHIELDING SOLUTIONS

SLIPPY FINGERS



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

Form	V 19	V 20	V 21	V 22

Form	a mm	b mm	∅ mm	L mm	Part no.
V 19	4.32	0.46	1.5	406	9030 *
				7620	9031 *
V 20	4.32	0.46	1.5	406	9032 *
				7620	9033 *
V 21	5.79	0.56	1.5	406	9034 *
				7620	9035 *
V 22	8.71	0.81	1.5	608	9036 *
				7620	9037 *

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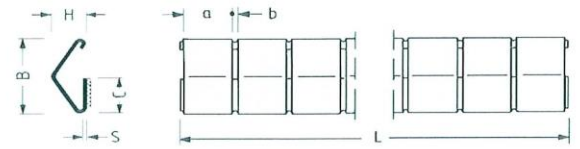
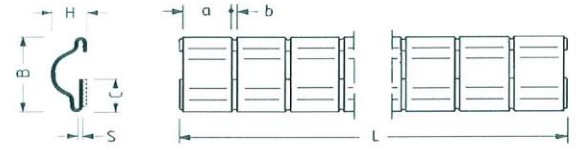
GROUNDING AND SHIELD STRIPS



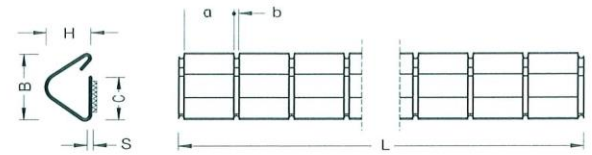
Form W1-W5 Surface Finish and Plating Codes: see page 16

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

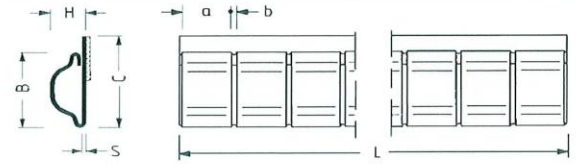


Form W10 Surface Finish and Plating Codes: see page 16

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

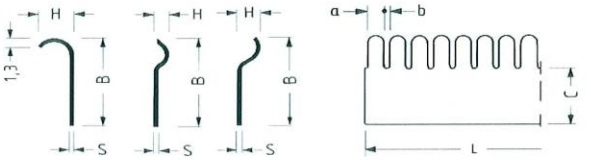
* only available in CuBe



Form 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

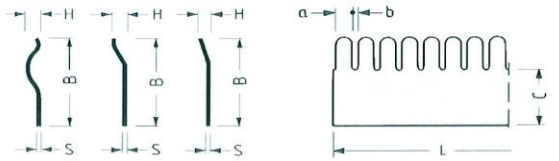
All contact strips are provided with two-sided adhesive strip.



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 *

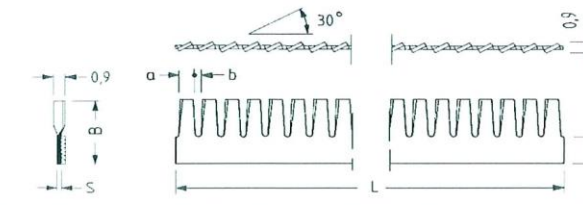
* only available in CuBe



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

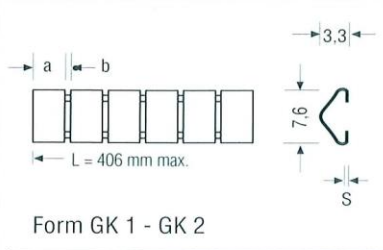
All contact strips are provided with two-sided adhesive strip.

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

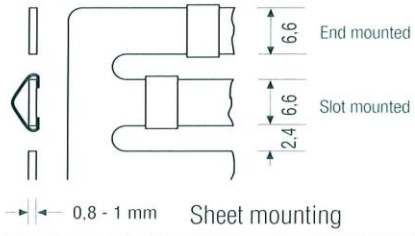
L also to custumer specifications.

TEMAS
SHIELDING SOLUTIONS

SLOT-MOUNT SHIELDS



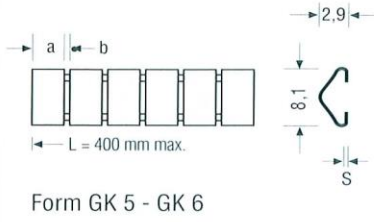
Form GK 1 - GK 2



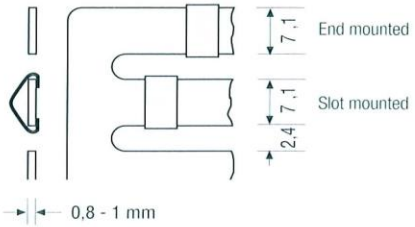
Sheet mounting

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

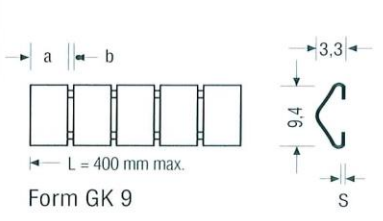


Form GK 5 - GK 6

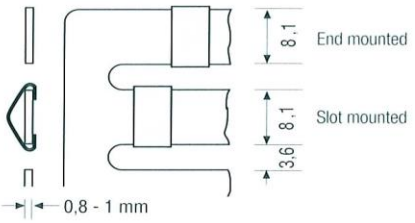


Surface Finish and Plating Codes: see page 16

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

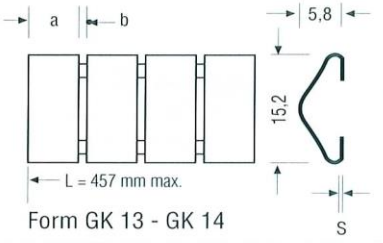


Form GK 9

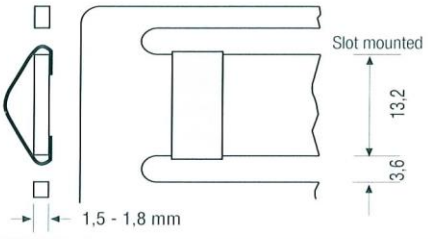


Surface Finish and Plating Codes: see page 16

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

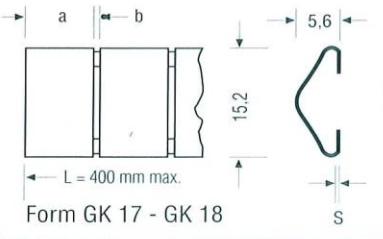


Form GK 13 - GK 14

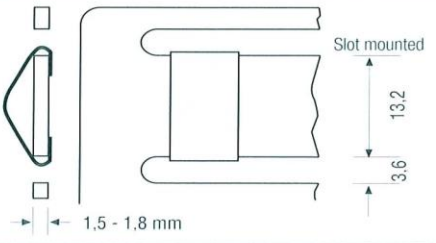


Surface Finish and Plating Codes: see page 16

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

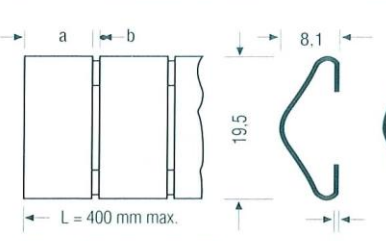


Form GK 17 - GK 18

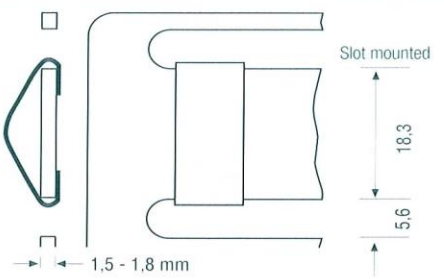


Surface Finish and Plating Codes: see page 16

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



Form GK 21 - GK 22



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

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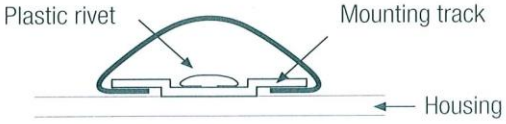
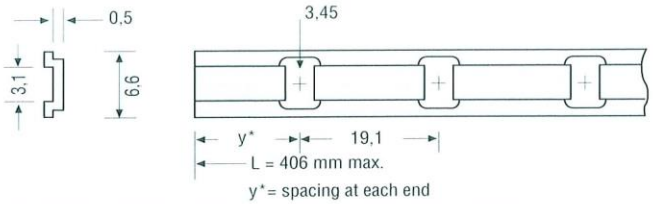
TRACKS AND ACCESSORIES

Mounting on riveted track

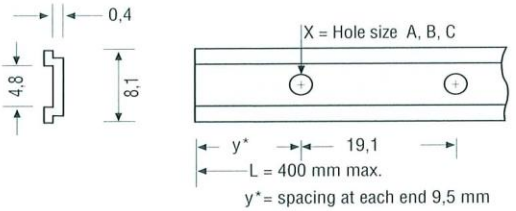


Instead of slots in the housing, a mounting track can be used for the shields with a T-end-piece.



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

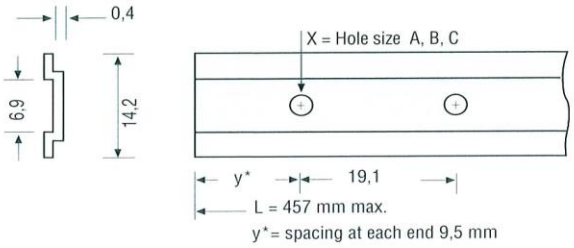
Material: Stainless steel



A = 3,2 mm
B = 3,5
C = 3,6 x 5,1

Mounting track	Part no.
MS 3 for GK 9	9735

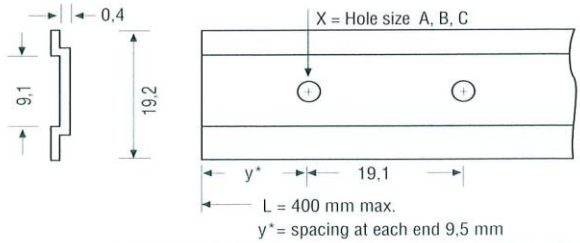
Material: Brass



A = 3,2 mm
B = 3,5
C = 3,6 x 5,1

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

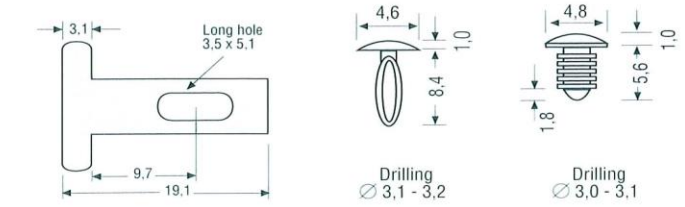
Material: Brass



A = 3,2 mm
B = 3,5
C = 3,6 x 5,1

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

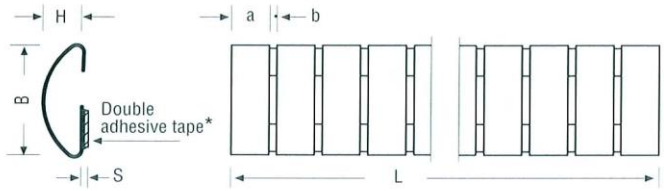
Material: Brass



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	
N E 1 for sheet 0.5 - 1.5 mm	9754
N E 2 for sheet 1.1 - 1.9 mm	9755

ROUNDED SHIELDS

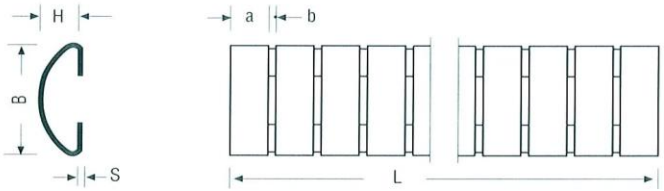


Form HR 1 - 3 *HR 1 = 4,1 HR 2 = 6,5 HR 3 = 7
HR 1 - HR 3 not equal-sided

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

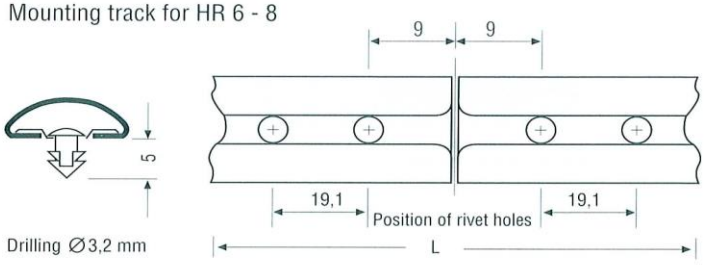
The shields can also be mounted on riveted track. Ideal for bi-directional load.



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

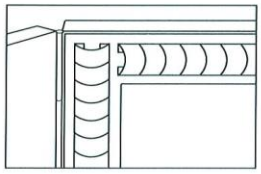
Mounting track for HR 6 - 8



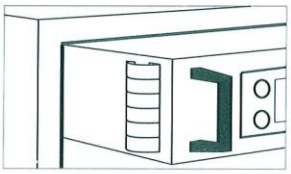
Drilling ∅3,2 mm

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 wide range of standard surface finishes.
Just add the code as a suffix to the part number while ordering.
For exaple BC 9760-17 means a shield form HR1 with tin plating
Other special finishes are available upon request.

Code	Surface finish
- 02	bright finish
- 03	gold plating
- 04	silver plating
- 15	zinc chromate
- 17	bright tin
- 19	bright nickel
- 00	custom

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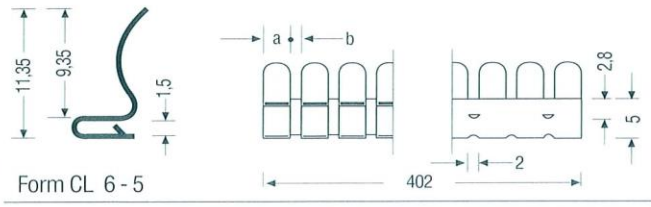
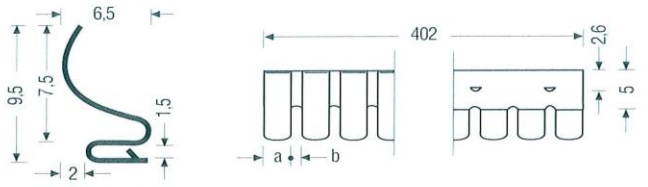


Form CL 6 - 5

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

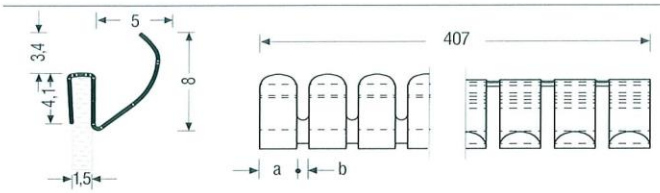
Material thickness: 0.127 mm
Surface Finish and Plating Codes: see page 16



Form CL 6 - 6

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

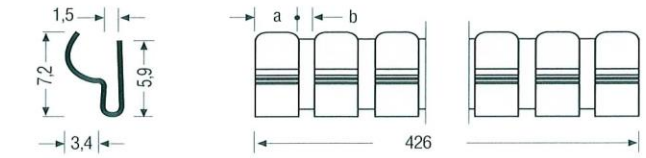
Material thickness: 0.127 mm
Surface Finish and Plating Codes: see page 16



Form CL 6 - 7

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

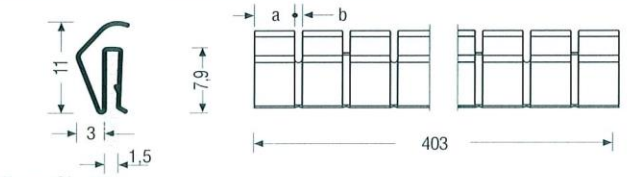
Material thickness: 0.127 mm
Surface Finish and Plating Codes: see page 16



Form CL 3 - 2

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

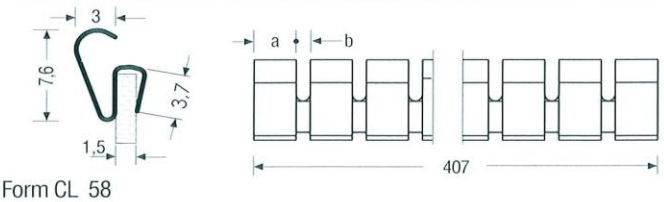
Material thickness: 0.127 mm
Surface Finish and Plating Codes: see page 16



Form CL 57

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

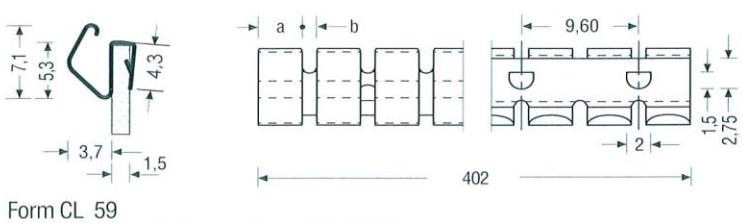
Material thickness: 0.08 mm
Surface Finish and Plating Codes: see page 16



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

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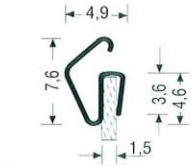
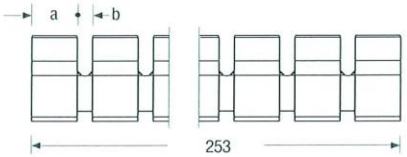


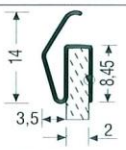
Form CL 60 M



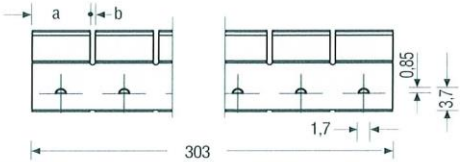
Surface Finish and Plating Codes: see page 16

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

Material thickness: 0.08 mm



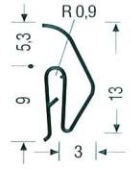
Form CL 60



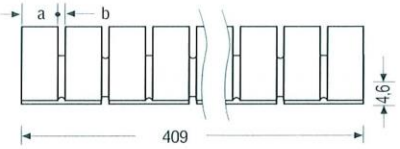
Surface Finish and Plating Codes: see page 16

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

Material thickness: 0.08 mm



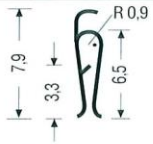
Form CL 61



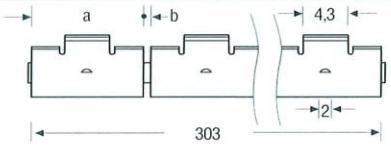
Surface Finish and Plating Codes: see page 16

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



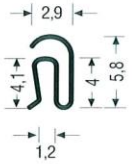
Form CL 62



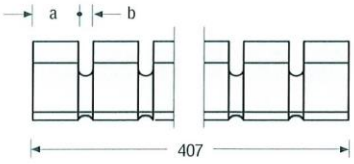
Surface Finish and Plating Codes: see page 16

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



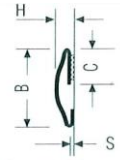
Form CL 63-1 = Clip 1.5

Surface Finish and Plating Codes: see page 16

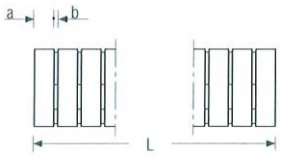
Form	a mm	b mm	Part no.
CL 63	3.0	1.0	8916*
CL 63-1	3.0	1.0	8916-1*

Material thickness: 0.09 mm * only available in CuBe

Low profile gaskets



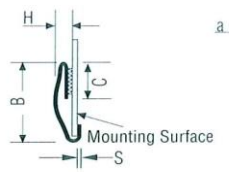
Form NP



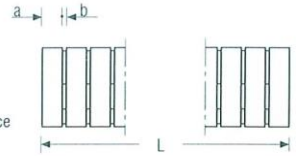
Form	a mm	b mm	C mm	H mm	B mm	S mm	L mm	Part no.
NP2	2.5	0.6	6.0	2.0	11.4	0.05	406	2001
NP3	2.5	0.6	8.2	3.0	15.2	0.05	406	2002

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

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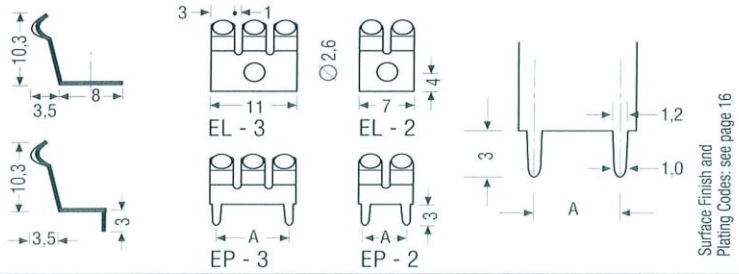
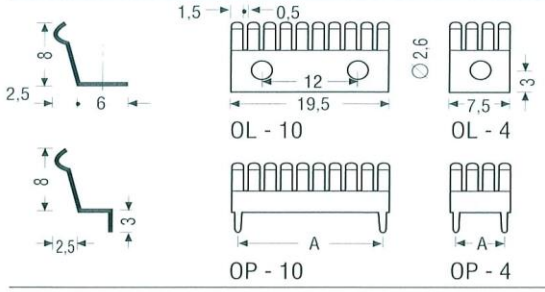


Surface Finish and Plating Codes: see page 16

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

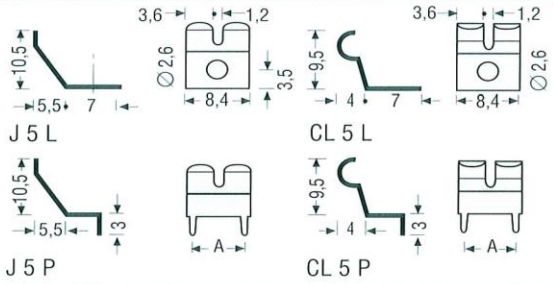
Material thickness: 0.2 mm



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

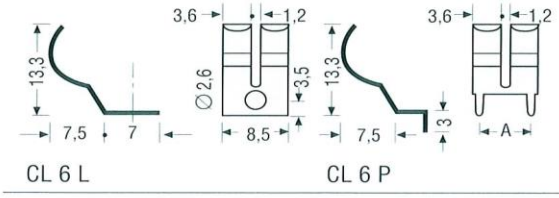
Material thickness: 0.15 mm



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

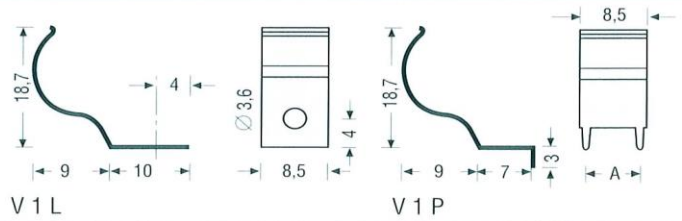
Material thickness: 0.127 mm



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

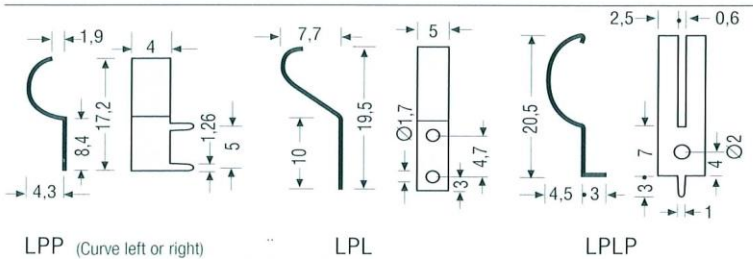
Material thickness: 0.127 mm



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



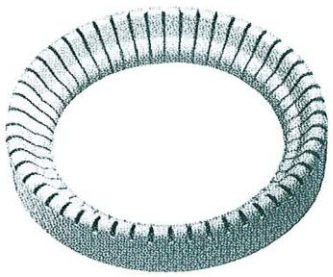
Form	No. of fingers	A mm	Part no.
L P P	1	-	8970 *
L P L	1	-	8980
L P L P	2	-	8990

Material thickness: LPP=0.15 LPL=0.15 LPLP=0.15 mm
* please state r (right) or l (left) for ordering

CONTACT STRIPS AND RINGS

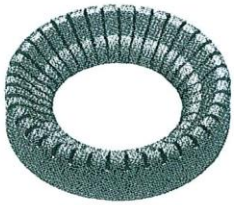
For tube 2 C 39 BA

Anode Contact Ring



Form Q
∅ 33 mm*

Grid Contact Ring



Form Q
∅ 23.5 mm*

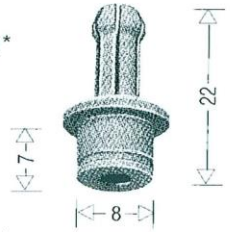
Form S
∅ 19.5 mm*

Cathode Contact Ring

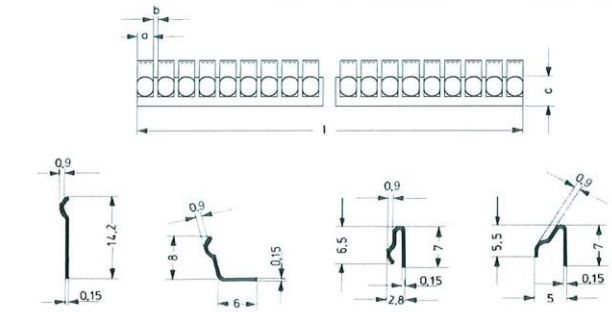
Form R
∅ 9.25 mm*

Form S
∅ 12.6 mm*

Heating Contact

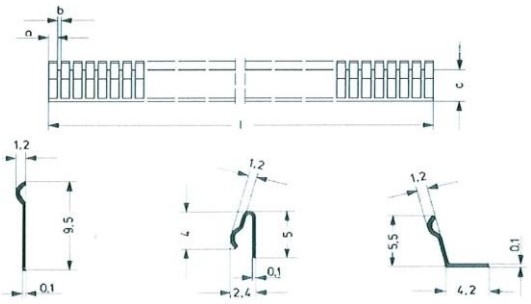


*Outer diameters



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(available from stock) or unhardened

Finish: bright finish or silver plated

Special options

Component: as a single finger, contact strip(available from stock) or contact ring

Note: almost all strips could be form int a ring by user

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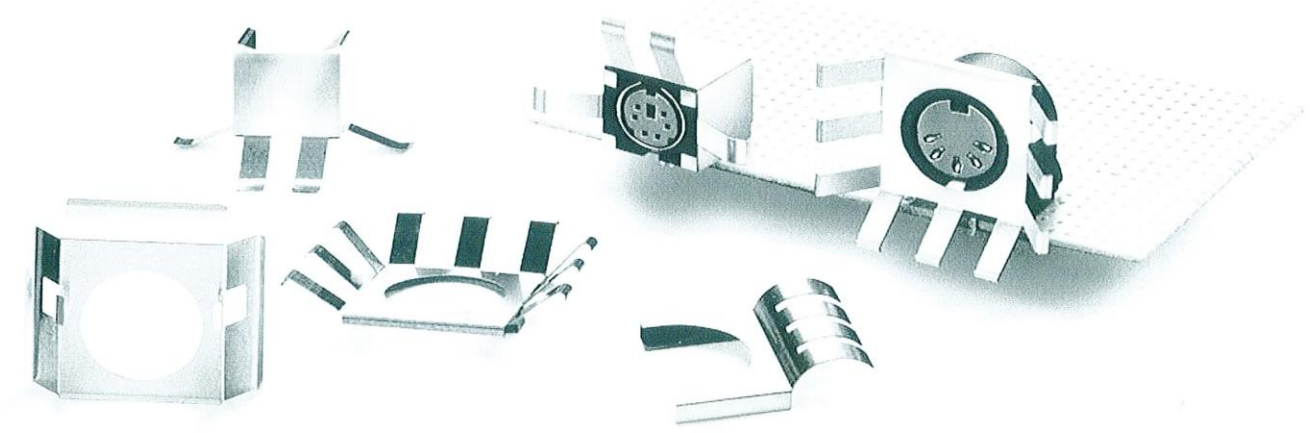
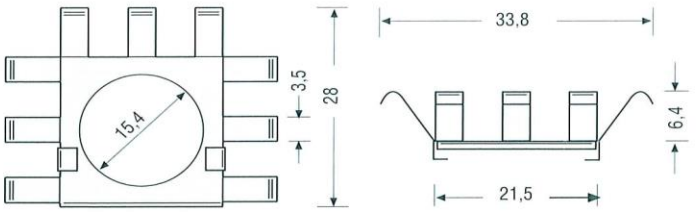
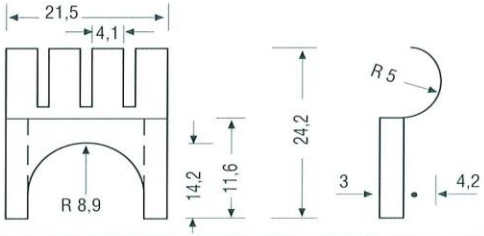
DIN Connector gaskets





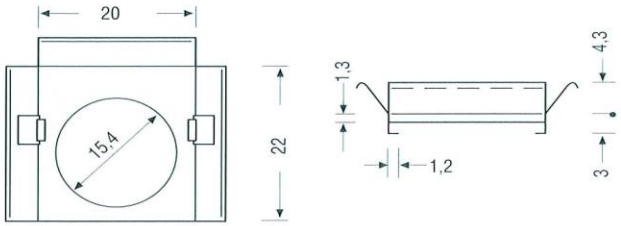
Part no.
9540

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



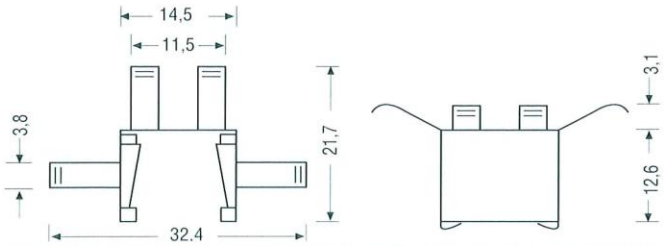
Part no.
9550

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

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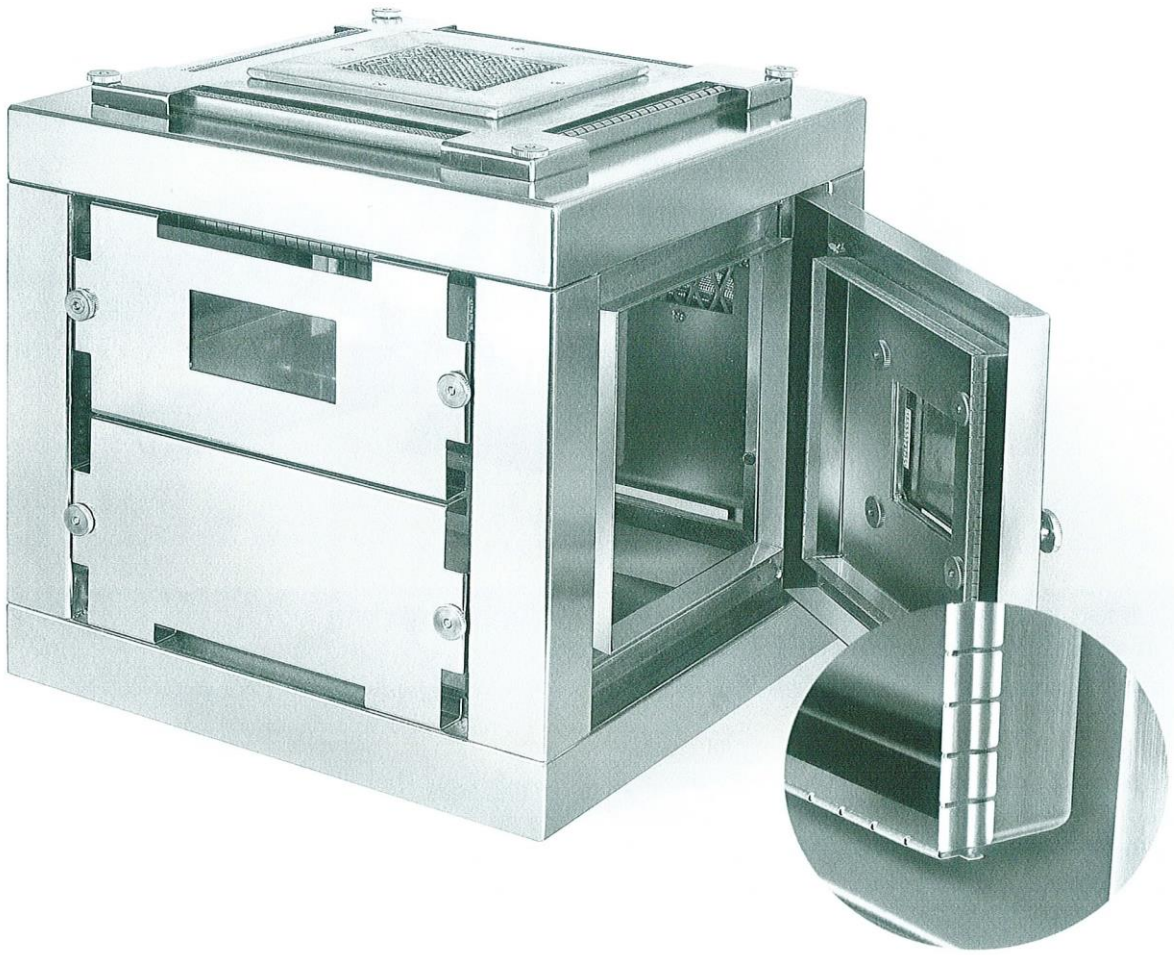
SHIELDED CASES AND CABINETS



Description

These products are realized and supplied according to customer specification and drawing

Standard materials: carbon steel, stainless steel and aluminium

Shielding and grounding: fingers or other emc gaskets available as standard

Options:
- ventilation openings with shielding panel(or air filter)
- inspection window with emc optical filter

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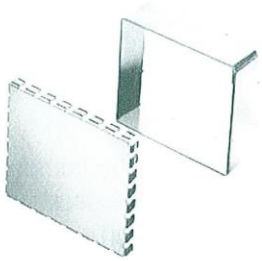
PCB SCREENS

Tin plated steel (0.6 mm)
Pin size: 2.5 x 1 mm

L (length) mm	B (width) mm	H (height) mm	Part no.
25	25	15	9501
30	25	18	9502
40	28	20	9503
40	32	18	9504
60	40	20	9505
70	50	25	9506

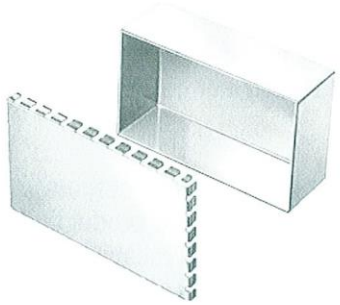
Can with pins for PCB mounting



Tin plated steel (0.9mm)
Pin size: 2.3 x 1 mm

L (length) mm	B (width) mm	H (height) mm	Part no.
20	20	10	9510
30	30	15	9511
50	25	15	9512
50	50	15	9513
75	50	25	9514
75	75	25	9515
100	50	25	9516
125	75	25	9517

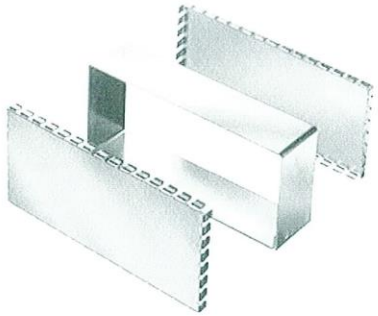
PCB mounting frame with fingered lid



Tin plated steel (0.9mm)

L (length) mm	B (width) mm	H (height) mm	Part no.
50	50	15	9520
75	50	25	9521
100	50	35	9522
160	100	50	9523

Standard can with fingered lid



Tin plated steel (0.9mm)

L (length) mm	B (width) mm	H (height) mm	Part no.
50	50	15	9530
75	50	15	9531
100	50	25	9532
160	100	35	9533
220	100	50	9534

Open frame with top and bottom fingered lids

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