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CHANGZHOU PIONEER ELECTRONIC CO.,LTD.

**BeCu
Fingerstock**

**EMC
SOLUTION**



CREDITABLE

PROFESSIONAL

EFFICIENT

Introduction

EMCPIONEER beryllium copper (BeCu) EMI gasket with high shielding effectiveness and low closure force. The excellent performance qualities of beryllium-copper including: Superior tensile strength & attenuation, RoHS compliance & recyclable, Excellent corrosion resistance, Excellent plating compatibility, Maximum spring properties and Superior endurance over other alloys make it an ideal material for EMI shielding over a broad frequency range. And Available in many plating options: bright and clean, tin-plated, nickel-plated, silver-plated, gold-plated...etc.

KEY FEATURE:

- Materials: Beryllium-Copper (BeCu)
- Large selection of sizes and shapes
- High shielding performance
- Mounting options: Stick-on, Snap-on, Clip on, Rivet ...
- Designed to be flexible, compressible and easy to wipe
- Application: RF shielding door, Faraday cage door, MRI door, EMI seal...etc
- Customized accept
- RoHS compliance

Beryllium Copper - Ideal shielding material

Beryllium copper (BeCu) is a high performance metal, it can be cast and used in a wide range of spare parts area. Its mechanical and electrical properties make it an ideal electromagnetic interference and radio frequency interference shielding product materials.

- High conductivity
- Good tensile strength
- Excellent corrosion resistance
- Easy plating
- Durable than other alloys

The electrical characteristics of beryllium copper can bring a very wide frequency range of the shielding effect, while its mechanical properties are highly deviated from the range, and long life will not be compressed, beryllium copper shrapnel to provide maximum flexibility and fatigue resistance, and have excellent conductivity, there are a variety of coating options. Beryllium copper has a high life cycle and in compliance with the differences in the gap, making it the best material attenuation.

Credit establishes basis, Profession creates brand, Efficiency wins market!



Applications and Features

EMCPIONEER's EMI metal shield is suitable to solve these existing EMI / RFI or ESD problems in a wide range of electronic devices.

- A wide range of diverse installation can be used for a variety of shielded room / door / cabinet doors / cover / printed board Flashboard / IC shielding.
- Can be well used for high-cycling and frequent access.
- Applicable from small handheld devices to large-scale shield chamber on various occasions.

Beryllium Copper Material Specification

Chemical Composition

Be	1.80-2.00%
Co + Ni	0.20% (Min.)
Co + Ni + Ir	0.6% (Max.)
Cu	Balance

Physical Characteristics

Electrical conductivity (% IACS)	22-25
Modulus of elasticity (psi)	18.5x10 ⁶

Mechanical properties (heat treated)

Temper	1/4 HT	1/2 HT
Tensile strength	175 (Min.)	185 (Min.)
Yield strength.2% offset	150 (Min.)	160 (Min.)

Compression

EMCPIONEER shielding devices may be mounted quickly and easily using any of several different methods. Each installation method is described in the text that follows. However, if you should run into a unique situation not resolved by any of these methods, give us a call, we can provide the exact answer you need.

Clip-on Mounting



Clip-on Mounting provides a reliable mechanical installation when there is an accessible mounting flange. Various flange thicknesses can be accommodated.

Stick-on Mounting



Stick-on Mounting provides double-sided adhesive tape for a fast, reliable installation. Apply only on a clean, oilfree surface, and allow a 24-hour cure time.

Snap-on Mounting



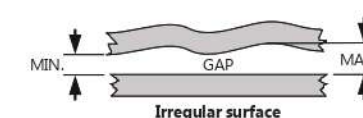
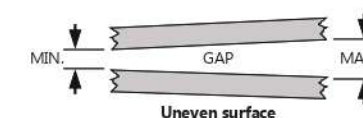
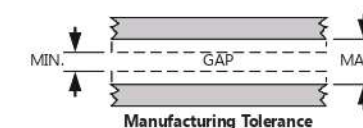
Snap-on Mounting are very economical. They perform well in bidirectional applications and the snap-on capability makes them easy to install.

Rivent Mounting

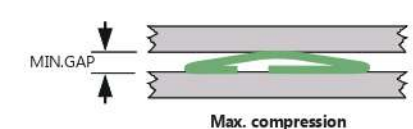
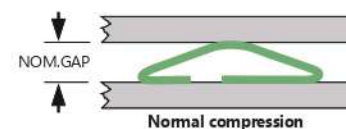
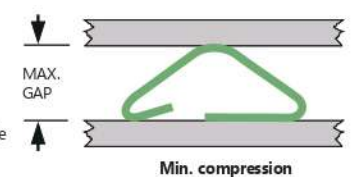
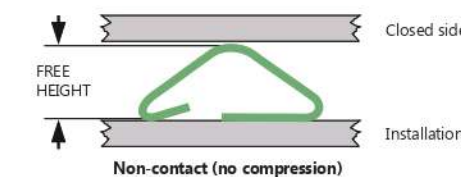


Rivent Mounting is typically installed with plastic rivets, but is also available with pressure sensitive tape for adhesive mounting

The purpose of shielding is to occupy and shield the gap created by connecting two adjacent surfaces. In order to be effective, fingergasket must completely occupy the largest and smallest gaps created by adjacent surfaces. The existence of gaps is mainly due to manufacturing tolerances, non-fitting adjacent surfaces or irregular surface formed. Appropriate compression control can effectively ensure the electromagnetic interference shielding effect. At the maximum gap case, the fingerstock of the compression ratio must be about 25%; fingerstock compressible to 50% of the height (or more).



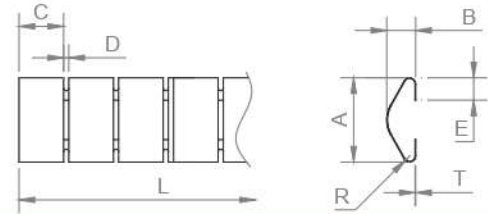
OPERATING RANGE = MAX. GAP - MIN. GAP



Beryllium Copper Fingerstock

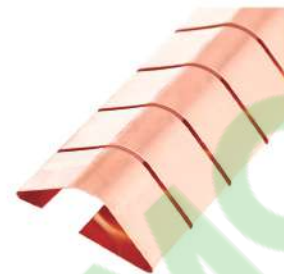
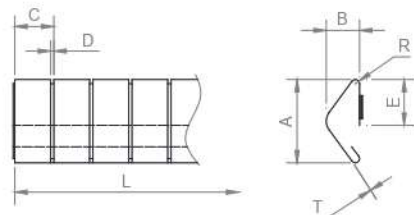


PECF 147100



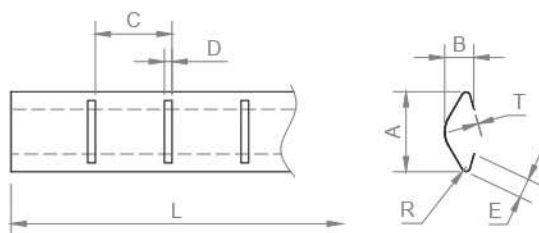
Number	A	B	C	D	E	T	R
PECF-147100	8.13	3.00	4.750	0.46	2.16	0.10	0.57
PECF-147101	8.13	3.00	4.750	0.46	1.90	0.08	0.51
PECF-147103	8.13	2.80	4.750	0.46	2.16	0.10	0.51
PECF-147104	8.13	2.80	4.750	0.46	2.16	0.10	0.69
PECF-147105	8.13	3.20	4.750	0.46	2.16	0.10	0.69
PECF-147110	8.13	3.20	4.750	0.46	2.16	0.08	0.69
PECF-147120	8.13	2.80	4.750	0.46	2.16	0.06	0.51
PECF-147121	8.13	2.80	4.750	0.46	2.16	0.06	0.69
PECF-147122	8.13	2.80	4.750	0.46	2.16	0.06	0.89
PECF-163100	9.40	3.30	6.350	0.64	5.10	0.08	0.51
PECF-171100	15.24	5.59	7.163	0.81	3.56	0.10	1.02
PECF-195100	15.24	5.59	9.525	0.81	3.60	0.10	/

PECF 147200



Number	A	B	C	D	E	T	R
PECF-147200	8.13	2.80	4.750	0.46	5.30	0.08	0.51
PECF-163200	9.40	3.30	6.350	0.64	5.30	0.05	0.51
PECF-195200	15.20	5.60	9.525	0.81	7.10	0.08	1.02
PECF-195201	20.32	8.13	9.525	0.81	11.18	0.10	1.02

PECF 151700

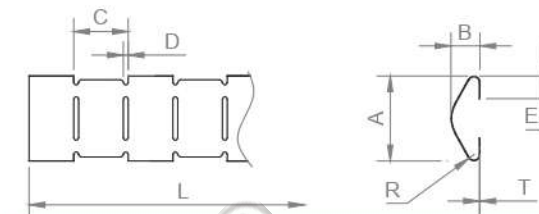


Number	A	B	C	D	E	T	R
PECF-151700	4.82	1.70	5.080	0.46	1.30	0.06	0.30

Beryllium Copper Fingerstock

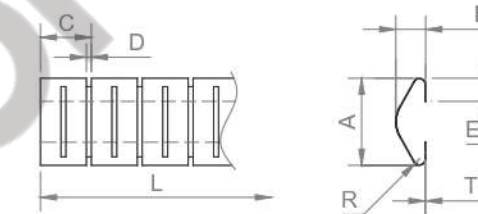


PECF 147300



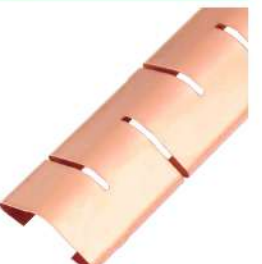
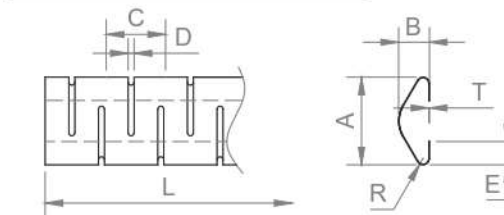
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PECF-147300	8.13	2.80	4.750	0.46	2.16	0.05	0.51
PECF-147301	8.13	2.80	4.750	0.46	2.00	0.06	0.51
PECF-147302	8.13	2.80	4.750	0.46	2.16	0.08	0.51
PECF-147303	8.13	2.80	4.750	0.46	2.16	0.06	0.51
PECF-147304	8.10	1.86	4.750	0.46	1.80	0.06	0.51
PECF-152300	9.50	3.80	5.200	0.70	2.20	0.08	0.51
PECF-171300	15.24	5.59	7.163	0.81	3.30	0.12	1.02

PECF 147600



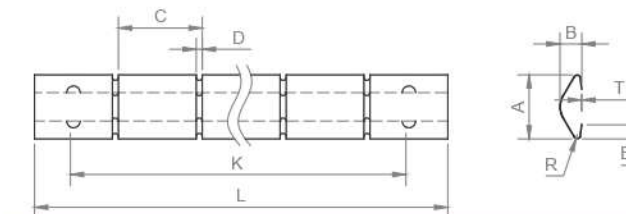
Number	A	B	C	D	E	T	R
PECF-147600	8.25	2.80	4.750	0.46	2.16	0.05	0.51
PECF-147601	8.13	3.00	4.750	0.46	2.16	0.10	0.51
PECF-147602	8.26	3.56	4.750	0.46	2.16	0.08	0.51

PECF 163500



Number	A	B	C	D	E	T	R
PECF-163500	9.4	3.30	6.350	0.64	5.30	0.05	0.51

PECF 163800

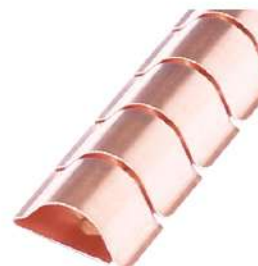
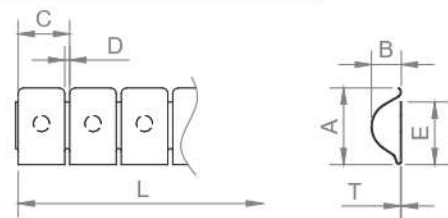


Number	A	B	C	D	E	T	R	K
PECF-163800	4.85	1.65	6.350	0.46	1.35	0.06	0.30	38.10

Beryllium Copper Fingerstock

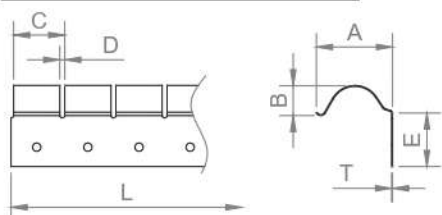


PECF 348100



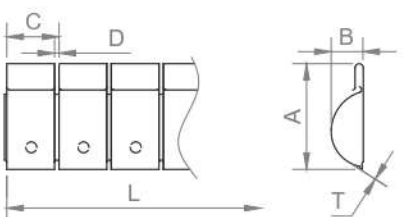
Number	A	B	C	D	E	T
PECF-348100	7.11	2.80	4.775	0.46	5.84	0.10
PECF-363100	9.40	3.56	6.350	0.56	7.87	0.08
PECF-395100	15.24	5.84	9.525	0.81	12.70	0.10

PECF 348200



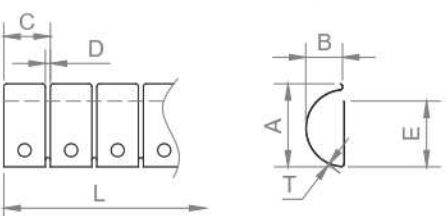
Number	A	B	C	D	E	T
PECF-348200	7.11	2.80	4.775	0.46	6.10	0.10
PECF-363200	9.40	3.56	6.350	0.56	8.13	0.08
PECF-395200	15.24	5.84	9.525	0.81	12.70	0.10

PECF 348600



Number	A	B	C	D	T
PECF-348600	9.65	3.04	4.78	0.46	0.08
PECF-348601	6.35	2.02	4.78	0.46	0.08
PECF-363600	13.00	3.58	6.35	0.56	0.08
PECF-395600	19.30	5.83	9.50	0.80	0.10

PECF 395300

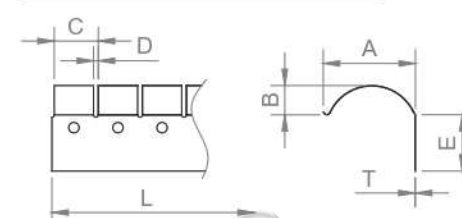


Number	A	B	C	D	E	T
PECF-395300	17.00	7.87	9.525	1.02	13.46	0.10
PECF-395301	19.80	6.35	9.525	1.02	13.46	0.10
PECF-3127300	28.70	10.41	12.700	1.02	19.80	0.18

Beryllium Copper Fingerstock

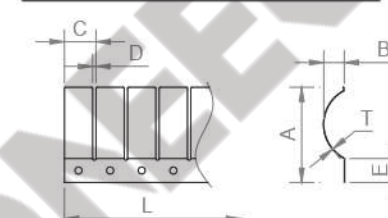


PECF 395400



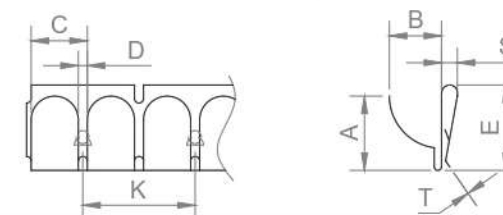
Number	A	B	C	D	E	T
PECF-395400	19.80	6.35	9.525	1.02	12.19	0.10
PECF-3127400	28.70	10.41	12.700	1.02	19.00	0.18

PECF 395500



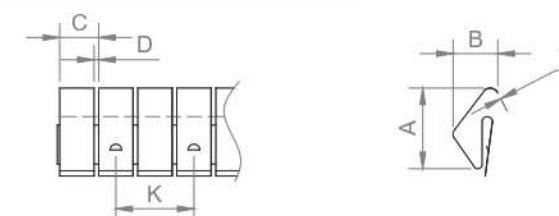
Number	A	B	C	D	E	T
PECF-395500	28.70	6.35	9.525	1.02	7.20	0.10
PECF-3127500	41.40	10.41	12.700	1.02	9.30	0.18

PECF 463100



Number	A	B	C	D	E	T	S	K
PECF-463100	8.60	5.56	6.350	1.02	9.65	0.12	1.78	12.70
PECF-463101	9.65	5.08	6.350	1.02	8.38	0.12	2.54	12.70
PECF-463102	8.40	7.11	6.350	1.02	9.65	0.12	1.78	12.70

PECF 463200

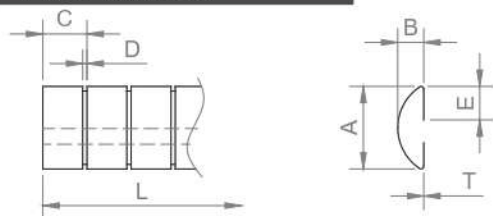


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PECF-463200	13.82	6.35	6.350	0.76	6.50	0.10	6.35
PECF-463201	13.82	6.35	6.350	0.76	6.50	0.10	12.70

Beryllium Copper Fingerstock

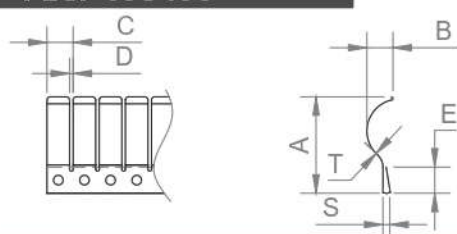


PECF 547100



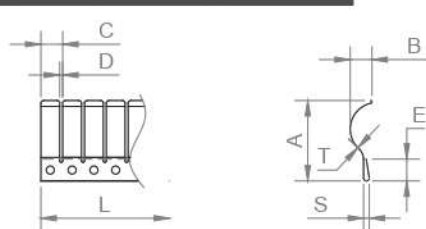
Number	A	B	C	D	E	T
PECF-547100	8.89	2.80	4.750	0.46	3.60	0.08
PECF-547101	8.89	2.80	4.750	0.46	3.60	0.05
PECF-563100	11.43	3.56	6.350	0.56	5.30	0.08
PECF-595100	15.75	5.59	9.525	0.76	7.50	0.08

PECF 695400



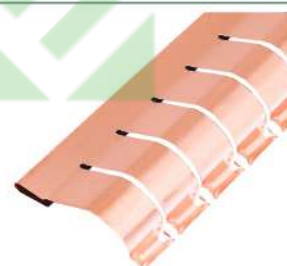
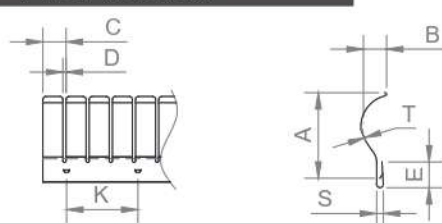
Number	A	B	C	D	E	T	S
PECF-695400	26.47	7.3	9.525	1.02	9.40	0.10	2.20

PECF 695500



Number	A	B	C	D	E	T	S
PECF-695500	27.30	7.40	9.525	1.02	7.40	0.12	1.92

PECF 695600

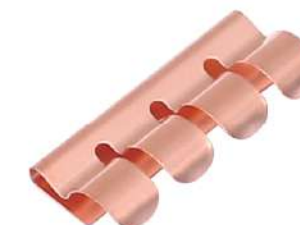
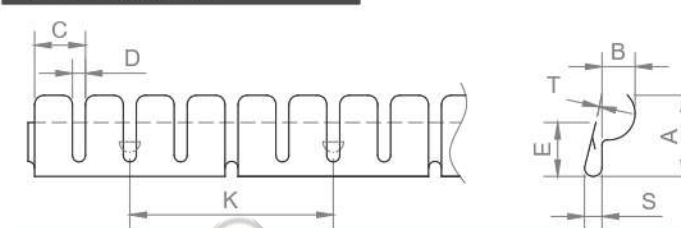


Number	A	B	C	D	E	T	S	K
PECF-695600	27.30	7.40	9.525	1.02	7.32	0.12	2.54	25.40

Beryllium Copper Fingerstock

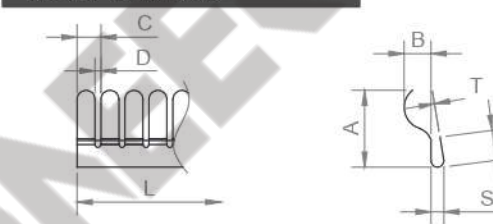


PECF 646300



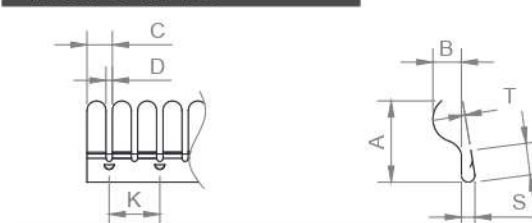
Number	A	B	C	D	E	T	S	K
PECF-646300	7.96	3.3	4.63	1.18	4.90	0.10	1.80	18.50
PECF-646301	8.20	2.67	4.63	1.18	4.70	0.12	2.00	18.50

PECF 647100



Number	A	B	C	D	E	T	S
PECF-647100	15.24	5.33	4.750	1.19	5.84	0.12	2.54
PECF-647101	15.24	5.33	4.750	1.19	4.86	0.12	1.52
PECF-647102	15.24	5.33	4.750	1.19	4.86	0.12	1.78
PECF-647103	7.62	2.54	4.750	1.19	4.86	0.12	1.78
PECF-647104	7.62	2.54	4.750	1.19	4.86	0.12	1.27
PECF-647105	10.67	3.05	4.750	1.19	6.35	0.12	2.54
PECF-647106	10.67	3.56	4.750	1.19	5.33	0.12	1.52
PECF-647107	11.18	2.03	4.750	1.19	4.86	0.12	1.27
PECF-647108	11.18	2.03	4.750	1.19	4.86	0.12	1.78

PECF 647200

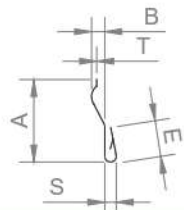
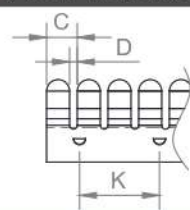


Number	A	B	C	D	E	T	S	K
PECF-647200	10.67	3.56	4.750	1.19	5.33	0.12	1.52	25.40
PECF-647201	10.67	2.03	4.750	1.19	4.83	0.12	1.78	25.40
PECF-647202	11.18	2.54	4.750	1.19	4.83	0.12	1.78	19.00

Beryllium Copper Fingerstock

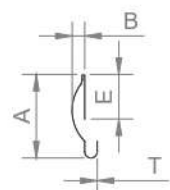
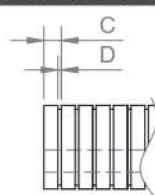


PECF 647400



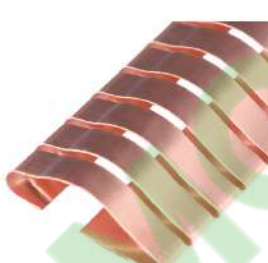
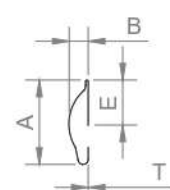
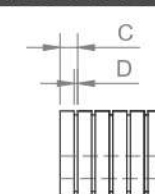
Number	A	B	C	D	E	T	S	K
PECF-647400	12.70	2.05	4.750	1.19	5.33	0.12	1.78	25.40
PECF-647401	7.62	2.03	4.750	1.19	4.83	0.12	1.27	25.40

PECF 732100



Number	A	B	C	D	E	T
PECF-732100	15.24	2.29	3.175	0.64	8.13	0.08
PECF-732101	11.43	1.52	3.175	0.64	6.10	0.08
PECF-732102	15.24	3.56	3.175	0.64	8.13	0.08

PECF 732200

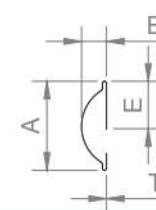
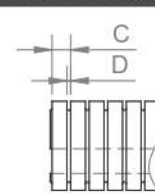


Number	A	B	C	D	E	T
PECF-732200	15.24	3.05	3.175	0.64	8.13	0.08
PECF-732201	11.43	2.60	3.175	0.64	5.90	0.08
PECF-732202	13.97	3.81	3.175	0.64	8.64	0.08

Beryllium Copper Fingerstock

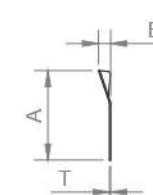
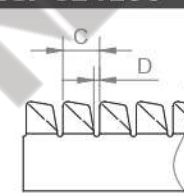


PECF 732300



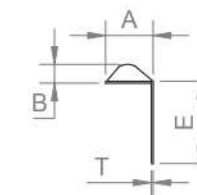
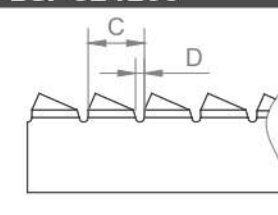
Number	A	B	C	D	E	T
PECF-732300	15.24	3.05	3.175	0.64	8.13	0.08
PECF-732301	13.97	3.81	3.175	0.64	8.64	0.08
PECF-732302	9.40	3.30	3.175	0.64	5.10	0.08
PECF-747300	8.13	2.29	4.750	0.46	5.30	0.08
PECF-763300	10.16	3.50	6.350	0.64	5.10	0.08
PECF-763301	9.40	3.50	6.350	0.64	5.10	0.08

PECF 824100



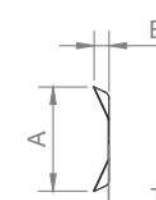
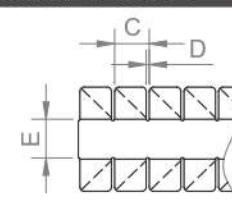
Number	A	B	C	D	E	T
PECF-824100	5.84	0.76	2.410	0.38	3.56	0.08
PECF-842100	8.63	1.78	4.190	0.38	4.57	0.08

PECF 824200



Number	A	B	C	D	E	T
PECF-824200	4.06	0.76	2.410	0.38	2.03	0.08
PECF-842200	5.08	1.78	4.190	0.38	2.80	0.08

PECF 842300

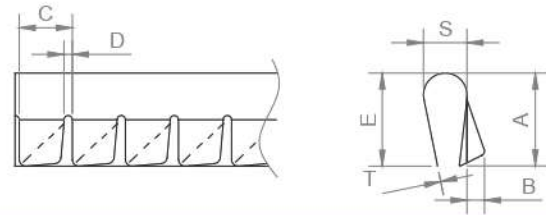


Number	A	B	C	D	E	T
PECF-842300	12.70	1.78	4.190	0.38	4.83	0.08

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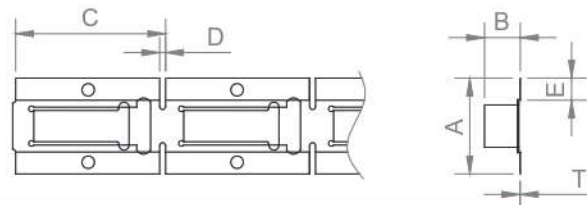


PECF 824500



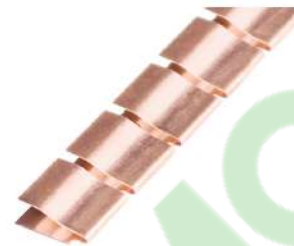
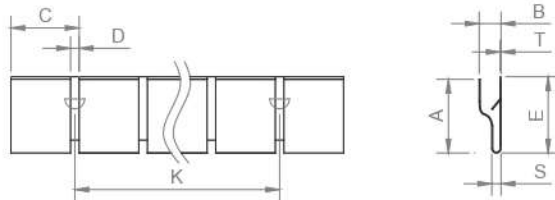
Number	A	B	C	D	E	T	S
PECF-824500	3.81	0.76	2.410	0.38	3.81	0.08	1.78
PECF-842500	5.33	1.78	4.190	0.38	5.33	0.08	1.78

PECF 0317000



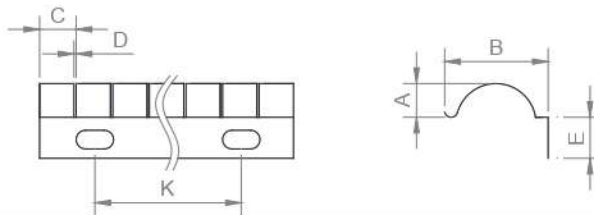
Number	A	B	C	D	E	T
PECF-0317000	20.30	7.60	31.750	1.25	4.66	0.12

PECF 063100



Number	A	B	C	D	E	T	S	K
PECF-063100	6.86	2.03	6.350	0.08	7.10	0.08	0.86	25.40
PECF-063101	6.90	3.10	6.350	0.08	6.90	0.08	0.86	25.40

PECF 198000

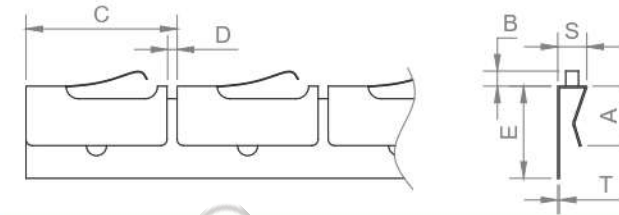


Number	A	B	C	D	E	K
PECF-198000	9.00	28.20	10.10	1.00	10.98	66.00

Beryllium Copper Fingerstock

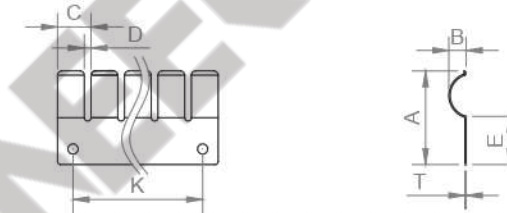


PECF 076100



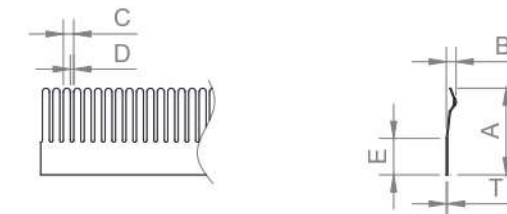
Number	A	B	C	D	E	T	S
PECF-076100	3.00	0.76	7.620	0.51	3.00	0.08	1.47
PECF-076101	3.00	0.76	7.620	0.51	4.65	0.08	1.47

PECF 050100



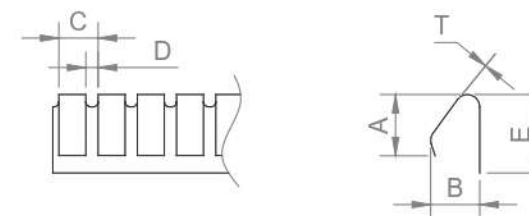
Number	A	B	C	D	E	T
PECF-050100	14.00	2.60	5.00	1.00	7.00	0.2

PECF 024100



Number	A	B	C	D	E	T
PECF-024100	19.81	2.29	2.388	0.79	7.87	0.25

PECF 048100



Number	A	B	C	D	E	T
PECF-048100	8.80	7.10	4.780	1.63	12.19	0.15