Garnituri EMI cu lamele de cupru-beriliu

Introducere:

Cupru beriliu (BeCu) este un metal de înaltă performanță, poate fi turnat și utilizat într-o gamă largă de piese de schimb. Proprietățile sale mecanice și electrice îl fac un material foarte bun de ecranare pentru interferențe electromagnetice și interferențe de radiofrecvență.

- Conductivitate ridicată;
- Rezistență bună la alungire;
- Rezistenta excelenta la coroziunei;
- Placare usoara;
- Durabil fata de alte aliaje.

Caracteristicile electrice ale cuprului beriliu pot determina efect de ecranare pentru o gamă foarte largă de frecvență, în timp ce proprietățile sale mecanice ofera flexibilitate ridicata și rezistență la oboseală. Cuprul beriliu are un ciclu de viață ridicat și cel mai bun material de atenuare.

Caracteristici:

- Materiale utilizate: Beriliu-Cupru (BeCu);
- O gamă largă de dimensiuni și forme;
- Performanță ridicată de ecranare electromagnetica;
- Opțiuni de montare: lipire, clipsare, Snap-on, cu nituri;
- Proiectat pentru a fi flexibil, compresibil și ușor de curatat;
- Aplicații: ușă ecranata RF, ușă cușcă Faraday, ușă RMN, etansare EMI, etc.
- Se accept personalizari ale formei;
- Conformitate RoHS.

Aplicatii tipice:

Garniturile EMI metalice furnizate de EMCPIONEER sunt foarte utile pentru a solutiona problemele EMI/RF sau ESD care se manifesta la diverse dispozitive electronice.

Garniturile EMI metalice intr-o gama diversa pot fi utilizate pentru etansare RF la o varietate de camere ecranate/uși/uși de cabinet/capace/placi imprimate Flashboard/ecranare circuite integrare.

Garniturile EMI metalice sunt adecvate pentru aplicatii cu frecventa ciclica ridicata (ex. usi de acces intens).

Aplicabil de la dispozitive portabile mici până la camera de scut la scară largă în diferite ocazii

Specificatii ale materialului BeCu:

- Compozitia chimica:

Be	1.8 – 2 %
Co + Ni	0.2% (min.)
Co + Ni + Ir	0.6% (max.)
Cu	echilibrat

- Caracteristici fizice:

Conductivitate electrica (%IACS)	22 - 25
Modulul de elasticitate (psi)	18.5 x 10^6

- Proprietati mecanice (tratat termic):

Caracter	1/4 HT	1/2 HT
Rezistenta la intindere	175 (Min.)	185 (Min.)
Limită de curgere la tracțiune 2% offset	150 (Min.)	160 (Min.)

Instalarea garniturilor EMI din BeCu:

Garniturile EMCPIONEER de ecranare EMI pot fi montate rapid și ușor folosind mai multe metode diferite. Metodele de instalare sunt descrise în textul ce urmează.

Montare prin clipsare

Montarea prin clipsare oferă o instalare mecanică fiabilă atunci când suportul de montare este o flanșă. Pot fi furnizate garnituri BeCu pentru mai multe grosimi de flanșă.



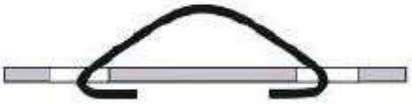
Montare prin clipsare

Pentru montarea prin lipire se furnizeaza bandă adezivă cu două fețe pentru o instalare rapidă și fiabilă. Se aplica banda adeziva numai pe o suprafață curată, degresata și ulterior se lasă un timp de intarire a lipiciului de 24 de ore.



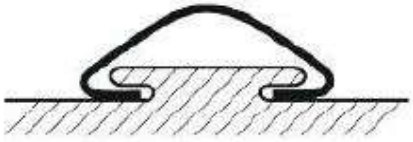
Montare Snap-on

Monatarile de tip Snap-on sunt foarte economice, iar capacitatea de fixare in fante le faciliteaza instalarea.



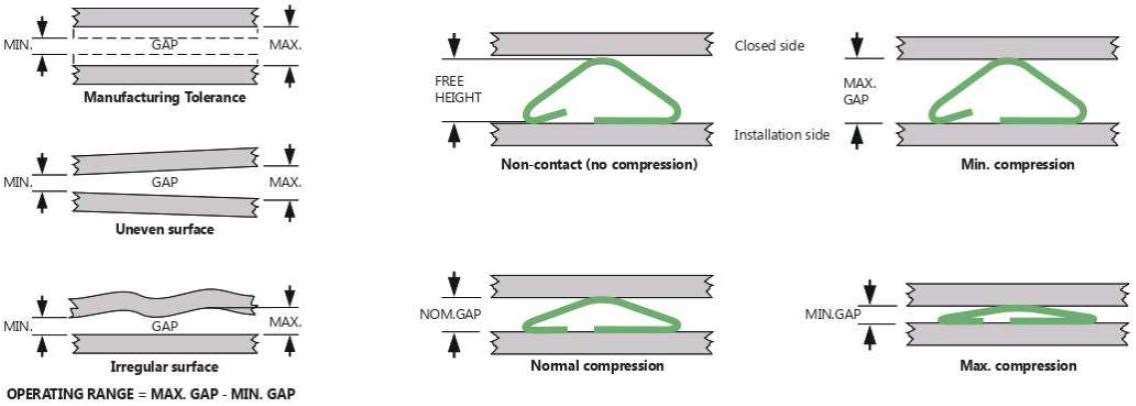
Montarea cu nituri

Montarea cu nituri este efectuata de obicei cu nituri din plastic, dar este disponibilă și cu bandă senzitiva la presiune care se aplica cu adeziv pe suprafata de instalare.



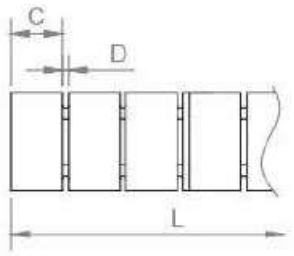
Scopul ecranării cu garnituti EMI BeCu este de a etansa și de a proteja golurile din ecran prin conectarea a două suprafețe adiacente. Pentru a fi eficienta, garnitura EMI BeCu trebuie să inchida complet distantarile/golurile dintre suprafețele adiacente. Existența distantarilor/golurilor se datorează în principal toleranțelor de fabricație, sau suprafețelor adiacente neregulate.

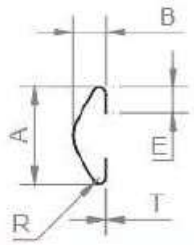
Comprimarea corespunzatoare a garniturilor EMI BeCu poate asigura eficienta foarte buna de ecranare electromagnetica. In cazuri de distantari mari ale suprafetelor ce tebuie etansate, rata de compresie a garniturii BeCu trebuie să fie de aproximativ 25% ÷ 50% din înălțimea garniturii.



Tipuri de garnituri EMI din BeCu

Seria PECF 147100

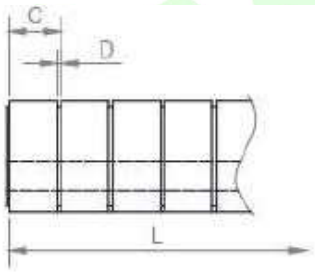


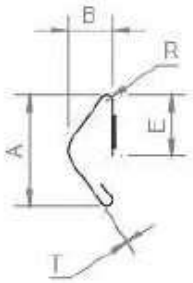




Tip	A	B	C	D	E	T	R
PECF-147100	8.13	3.00	4.750	0.46	2.16	0.10	0.57
PECF-147101	8.13	3.00	4.750	0.46	1.90	0.08	0.51
PECF-147103	8.13	2.80	4.750	0.46	2.16	0.10	0.51
PECF-147104	8.13	2.80	4.750	0.46	2.16	0.10	0.69
PECF-147105	8.13	3.20	4.750	0.46	2.16	0.10	0.69
PECF-147110	8.13	3.20	4.750	0.46	2.16	0.08	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	--

Seria PECF 147200

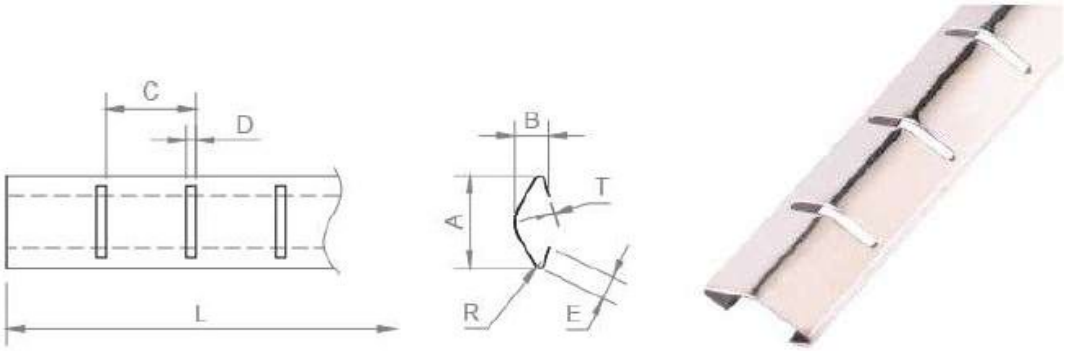






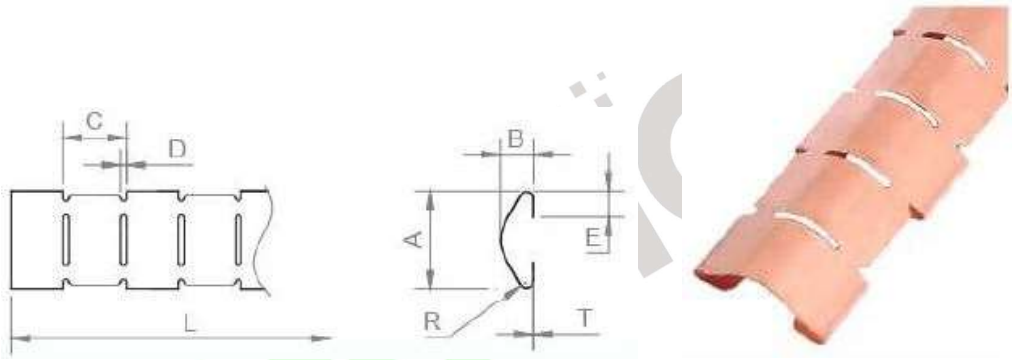
Tip	A	B	C	D	E	T	R
PECF-147200	8.13	2.80	4.750	0.46	5.30	0.08	0.51
PECF-163200	9.40	3.30	6.350	0.64	5.30	0.05	0.51
PECF-195200	15.20	5.60	9.525	0.81	7.10	0.08	1.02
PECF-195201	20.32	8.13	9.525	0.81	11.18	0.10	1.02

Seria PECF 151700



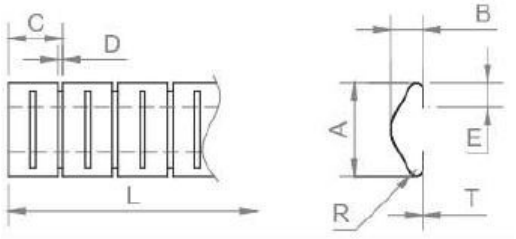
Tip	A	B	C	D	E	T	R
PECF-151700	4.82	1.70	5.080	0.46	1.30	0.06	0.30

Seria PECF 147300



Tip	A	B	C	D	E	T	R
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

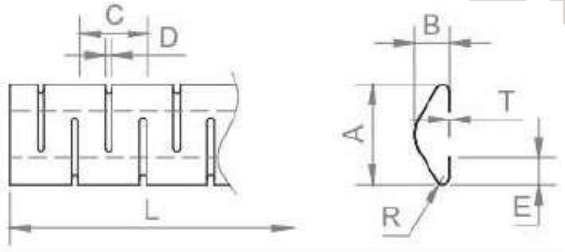
Seria PECF 147600





Tip	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

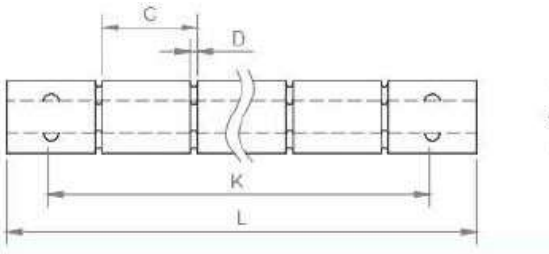
Seria PECF 163500





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

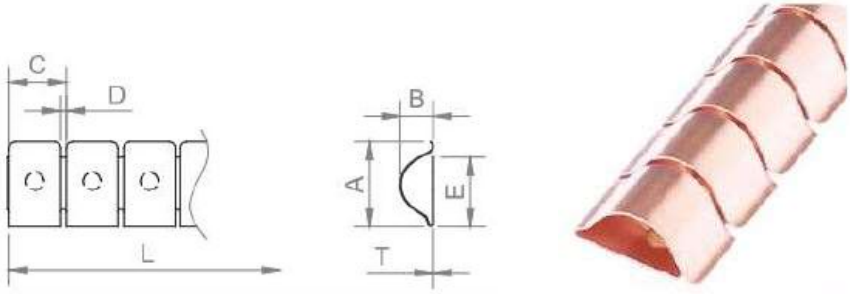
Seria PECF 163800





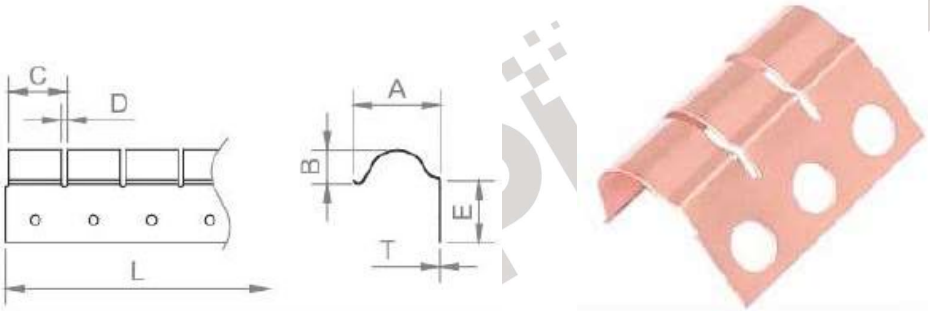
Tip	A	B	C	D	E	T	R	K
PECF-163800	4.85	1.65	6.350	0.46	1.35	0.06	0.30	38.10

Seria PECF 384100



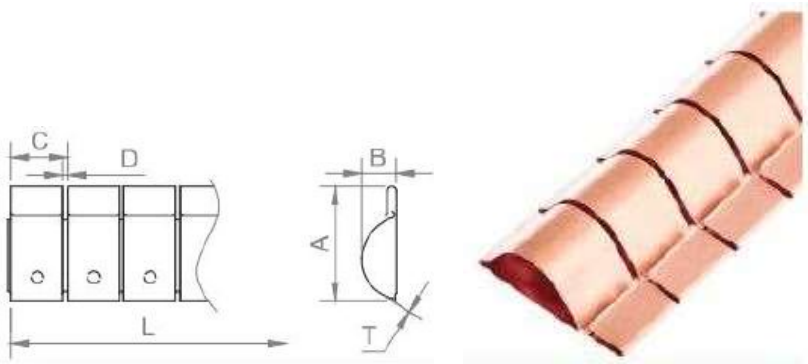
Tip	A	B	C	D	E	T
PECF-348100	7.11	2.80	4.775	0.46	5.84	0.10
PECF-363100	9.40	3.56	6.350	0.56	7.87	0.08
PECF-395100	15.24	5.84	9.525	0.81	12.70	0.10

Seria PECF 384200



Tip	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

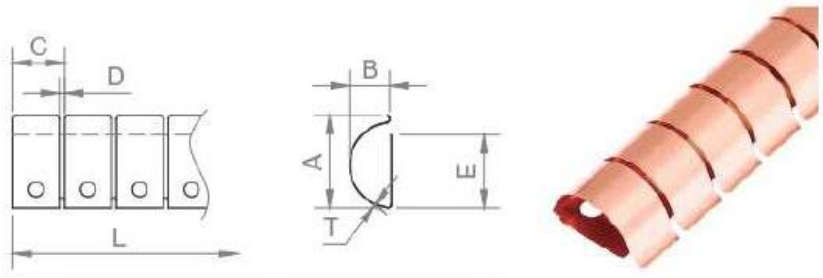
Seria PECF 384600



Tip	A	B	C	D	T
PECF-348600	9.65	3.04	4.78	0.46	0.08

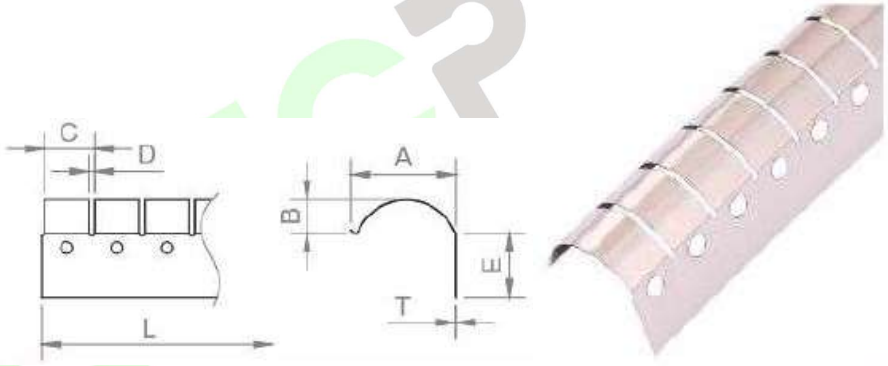
PECF-348601	6.35	2.02	4.78	0.46	0.08
PECF-363600	13.00	3.58	6.35	0.56	0.08
PECF-395600	19.30	5.83	9.50	0.80	0.10

Seria PECF 395300



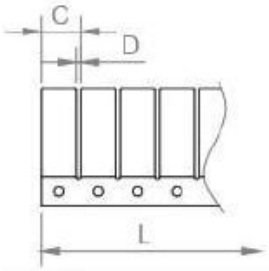
Tip	A	B	C	D	E	T
PECF-395300	17.00	7.87	9.525	1.02	13.46	0.10
PECF-395301	19.80	6.35	9.525	1.02	13.46	0.10
PECF-3127300	28.70	10.41	12.700	1.02	19.80	0.18

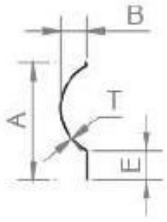
Seria PECF 395400



Tip	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

Seria PECF 395500

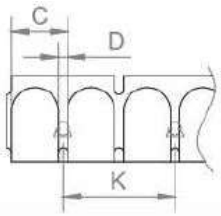


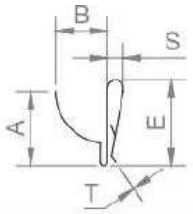




Tip	A	B	C	D	E	T
PECF-395500	28.70	6.35	9.525	1.02	7.20	0.10
PECF-3127500	41.40	10.41	12.700	1.02	9.30	0.18

Seria PECF 463100

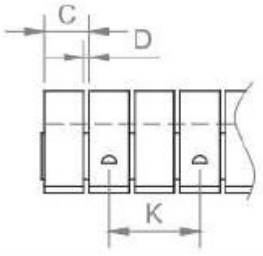


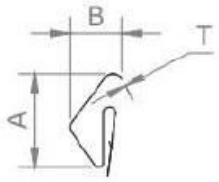




Tip	A	B	C	D	E	T	S	K
PECF-463100	8.60	5.56	6.350	1.02	9.65	0.12	1.78	12.70
PECF-463101	9.65	5.08	6.350	1.02	8.38	0.12	2.54	12.70
PECF-463102	8.40	7.11	6.350	1.02	9.65	0.12	1.78	12.70

Seria PECF 463200

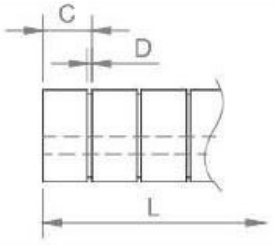


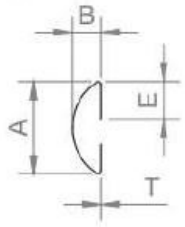




Tip	A	B	C	D	E	T	K
PECF-463200	13.82	6.35	6.350	0.76	6.50	0.10	6.35
PECF-463201	13.82	6.35	6.350	0.76	6.50	0.10	12.70

Seria PECF 547100

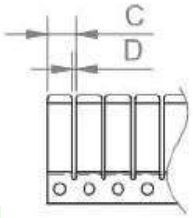


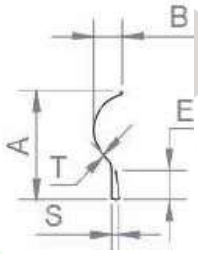




Tip	A	B	C	D	E	T
PECF-547100	8.89	2.80	4.750	0.46	3.60	0.08
PECF-547101	8.89	2.80	4.750	0.46	3.60	0.05
PECF-563100	11.43	3.56	6.350	0.56	5.30	0.08
PECF-595100	15.75	5.59	9.525	0.76	7.50	0.08

Seria PECF 695400

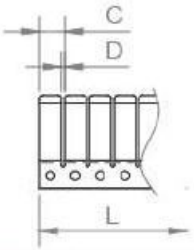


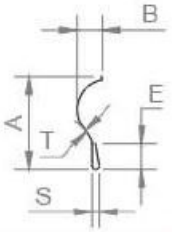




Tip	A	B	C	D	E	T	S
PECF-695400	26.47	7.3	9.525	1.02	9.40	0.10	2.20

Seria PECF 695500

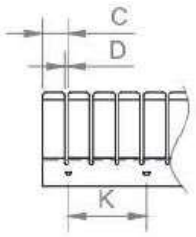


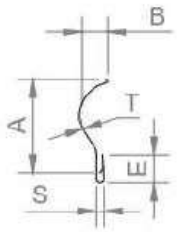


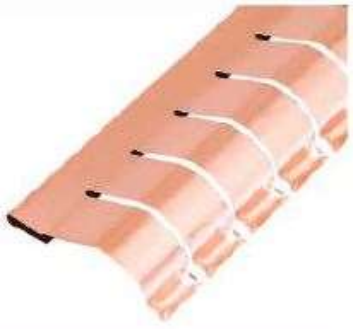


Tip	A	B	C	D	E	T	S
PECF-695500	27.30	7.40	9.525	1.02	7.40	0.12	1.92

Seria PECF 695600

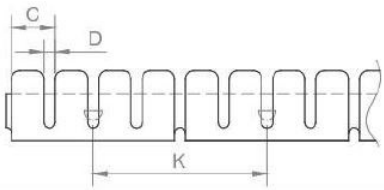


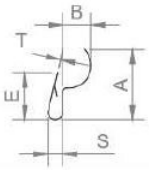


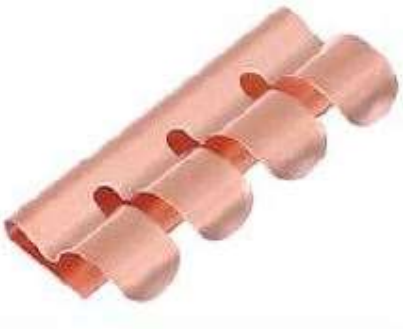


Tip	A	B	C	D	E	T	S	K
PECF-695600	27.30	7.40	9.525	1.02	7.32	0.12	2.54	25.40

Seria PECF 646300

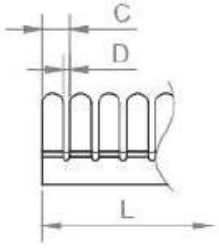


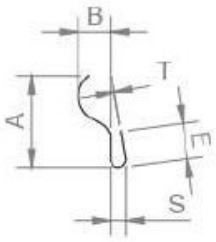


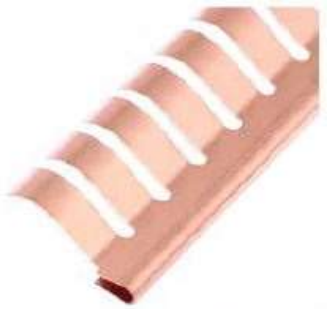


Tip	A	B	C	D	E	T	S	K
PECF-646300	7.96	3.3	4.63	1.18	4.90	0.10	1.80	18.50
PECF-646301	8.20	2.67	4.63	1.18	4.70	0.12	2.00	18.50

Seria PECF 647100



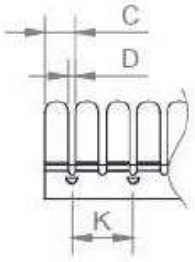


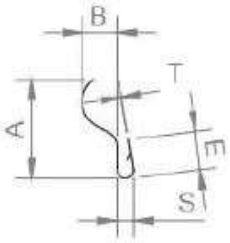


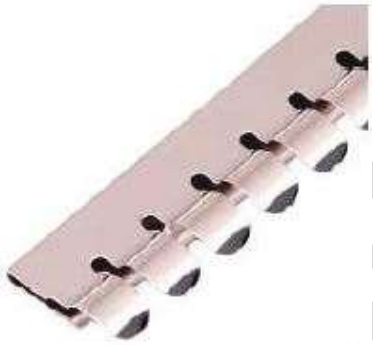
Tip	A	B	C	D	E	T	S
PECF-647100	15.24	5.33	4.750	1.19	5.84	0.12	2.54
PECF-647101	15.24	5.33	4.750	1.19	4.86	0.12	1.52
PECF-647102	15.24	5.33	4.750	1.19	4.86	0.12	1.78
PECF-647103	7.62	2.54	4.750	1.19	4.86	0.12	1.78

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

Seria PECF 647200

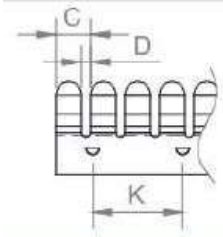


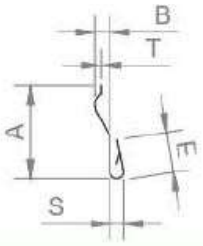




Tip	A	B	C	D	E	T	S	K
PECF-647200	10.67	3.56	4.750	1.19	5.33	0.12	1.52	25.40
PECF-647201	10.67	2.03	4.750	1.19	4.83	0.12	1.78	25.40
PECF-647202	11.18	2.54	4.750	1.19	4.83	0.12	1.78	19.00

Seria PECF 647400

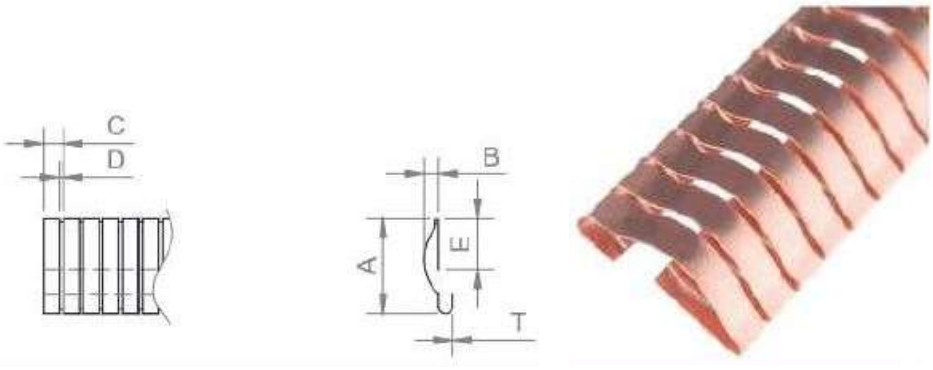






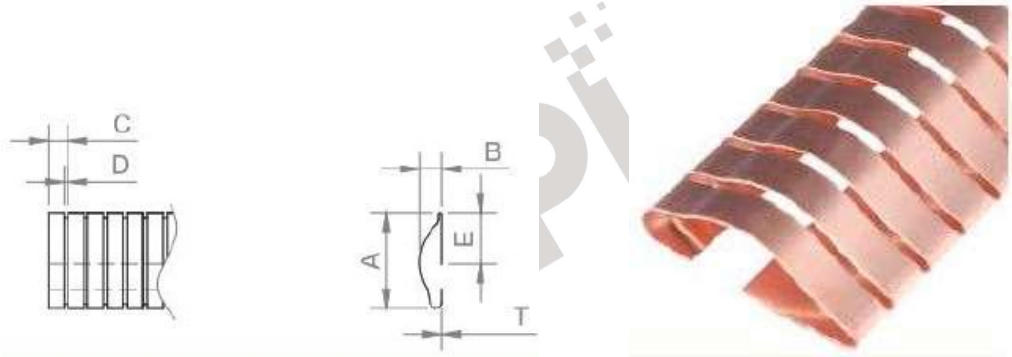
Tip	A	B	C	D	E	T	S	K
PECF-647400	12.70	2.05	4.750	1.19	5.33	0.12	1.78	25.40
PECF-647401	7.62	2.03	4.750	1.19	4.83	0.12	1.27	25.40

Seria PECF 732100



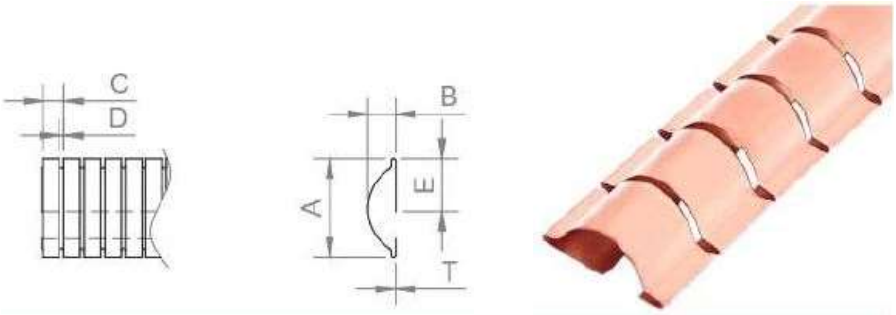
Tip	A	B	C	D	E	T
PECF-732100	15.24	2.29	3.175	0.64	8.13	0.08
PECF-732101	11.43	1.52	3.175	0.64	6.10	0.08
PECF-732102	15.24	3.56	3.175	0.64	8.13	0.08

Seria PECF 732200



Tip	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

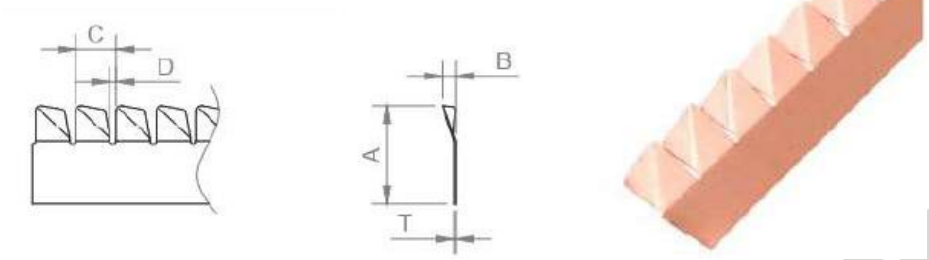
Seria PECF 732300



Tip	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

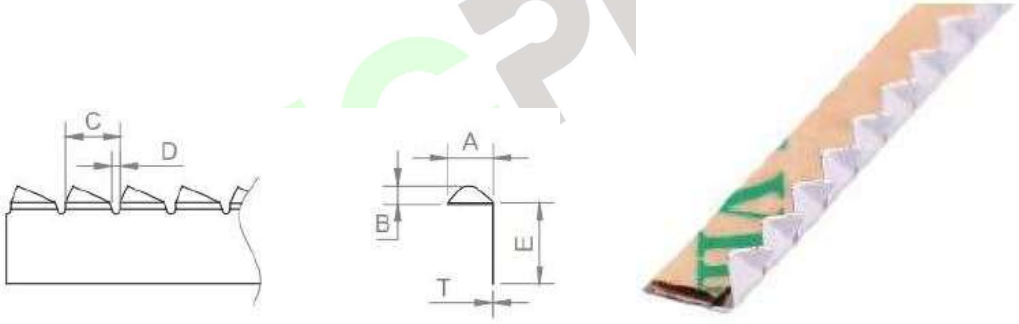
PECF-732302	9.40	3.30	3.175	0.64	5.10	0.08
PECF-747300	8.13	2.29	4.750	0.46	5.30	0.08
PECF-763300	10.16	3.50	6.350	0.64	5.10	0.08
PECF-763301	9.40	3.50	6.350	0.64	5.10	0.08

Seria PECF 824100



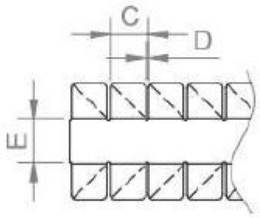
Tip	A	B	C	D	E	T
PECF-824100	5.84	0.76	2.410	0.38	3.56	0.08
PECF-842100	8.63	1.78	4.190	0.38	4.57	0.08

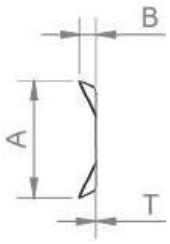
Seria PECF 824200



Tip	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	2.8	0.08

Seria PECF 824300

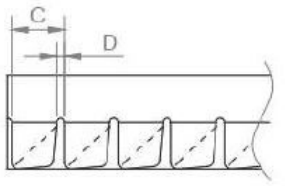


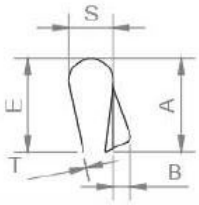




Tip	A	B	C	D	E	T
PECF-842300	12.70	1.78	4.190	0.38	4.83	0.08

Seria PECF 824500

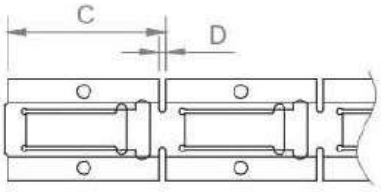


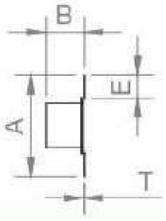




Tip	A	B	C	D	E	T	S
PECF 824500	3.81	0.76	2.410	0.38	3.81	0.08	1.78
PECF 842500	5.33	1.78	4.190	0.38	5.33	0.08	1.78

Seria PECF 0317000

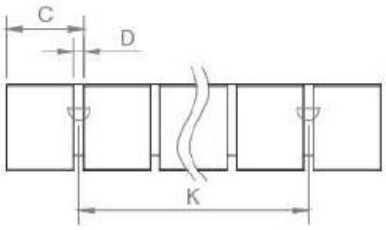


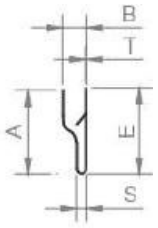




Tip	A	B	C	D	E	T
PECF 0317000	20.30	7.60	31.750	1.25	4.66	0.12

Seria PECF 063100

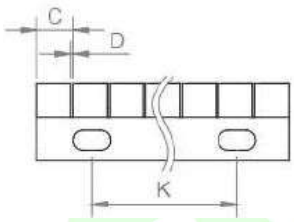


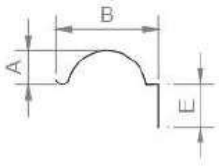




Tip	A	B	C	D	E	T	S	K
PECF-063100	6.86	2.03	6.350	0.08	7.10	0.08	0.86	25.40
PECF-063101	6.90	3.10	6.350	0.08	6.90	0.08	0.86	25.40

Seria PECF 198000

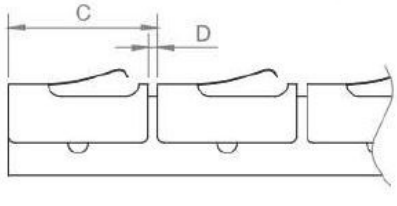


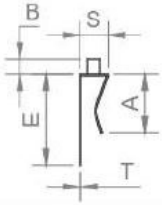




Tip	A	B	C	D	E	K
PECF-198000	9.00	28.20	10.10	1.00	10.98	66.00

Seria PECF 076100







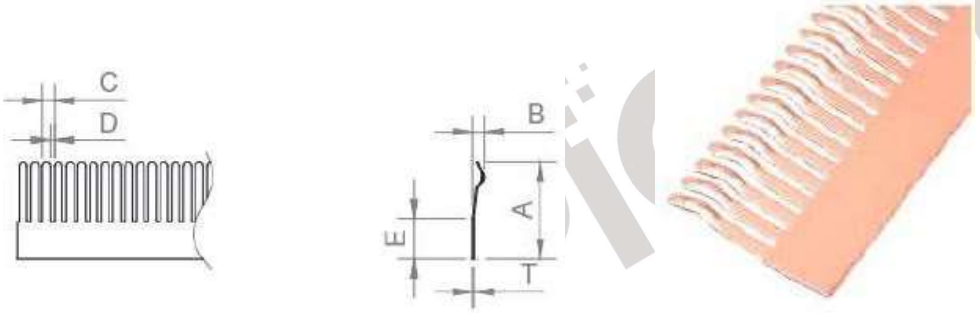
Tip	A	B	C	D	E	T	S
PECF-076100	3.00	0.76	7.620	0.51	3.00	0.08	1.47
PECF-076101	3.00	0.76	7.620	0.51	4.65	0.08	1.47

Seria PECF 050100



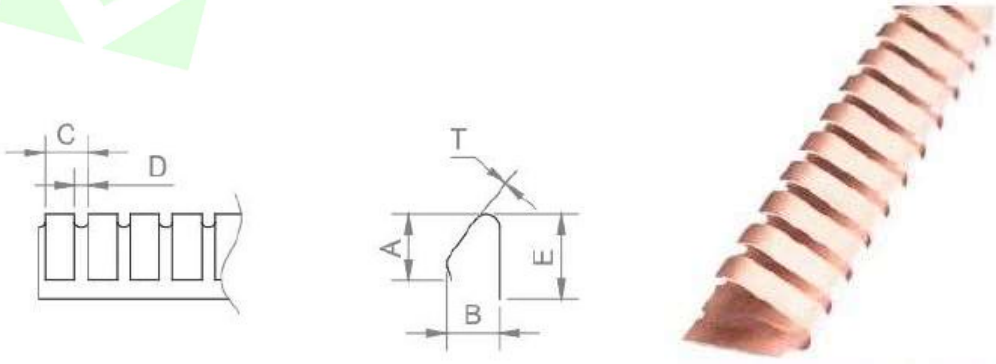
Tip	A	B	C	D	E	T
PECF-050100	14.00	2.60	5.00	1.00	7.00	0.2

Seria PECF 024100



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

Seria PECF 048100



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