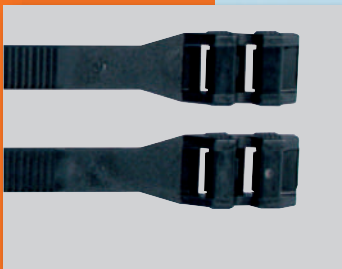
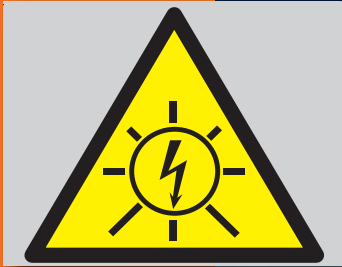




PHOTOVOLTAIC

Cabling accessories
for solar installations

IV/24 - 0960 0016 0008 E



SES-STERLING [®]
www.ses-sterling.com





Products conform to **Directive RoHS**
 Produits conformes à la **Directive RoHS**
 Produkte, die der **RoHS-Richtlinie** entsprechen



Products certified **halogene free**
 Produits certifiés **sans halogène**
Halogenfreie Produkte

We ensure close control of the REACH Regulation.
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Wir sorgen für ein genaues Einhalten der REACH-Verordnung.
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001	white	blanc	weiß
002	blue	bleu	blau
003	green	vert	grün
004	yellow	jaune	gelb
005	orange	orange	orange
006	brown	brun	braun
007	red	rouge	rot
008	purple	violet	violett
010	black	noir	schwarz
013	grey	gris	grau
015	pink	rose	rosa
017	lilac	lilas	lila
018	natural	naturel	natur
020	light blue	bleu clair	hellblau
022	light green	vert clair	hellgrün
060	yellow/green	jaune/vert	gelb/grün



Good cable management optimises the performance of your photovoltaic installations.

SES-STERLING supports you with a wide selection of products to :

- protect,
- insulate,
- identify,
- fix your cables,
- provide you with the right tools.

Our products, manufactured in France, use materials formulated to withstand harsh conditions.

Our selection of cabling accessories takes into account exposure to environmental factors (UV, temperature, etc.) to preserve the life of your solar installations.

• Technical specifications

Product	Material	Resistance against UV rays	Operating temperatures
PLIOFINE B-EX heat-shrinkable tubing	Cross-linked polyolefin	++	-55 to +135°C
PLIOFINE B-EX-03 heat-shrinkable tubing	Cross-linked polyolefin	++	-55 to +135°C
PLIOSPIRE spiral split protective tubing	PTFE	+++	-200 to +260°C
PLIOWELL PWAS flexible corrugated tubing	PA6	++	-40 to +120°C
End caps for PLIOWELL REC flexible tubing	Thermoplastic elastomer	+++	-50 to +125°C
Accessories for PLIOWELL conduit	PA6.6	++	-40 to +135°C
HELAVIA® DX sealing grommets	EPDM	++	-40 to +100°C
PLIO-PE cable gland	PA6	++	-20 to +100°C
PE-MT metal cable gland	Nickel-plated brass	+++	-20 to +100°C
PBC plates	Acrylic	++	-40° to +80°
TA foam labels and strips	Polyester and acrylic foam	++	-40° to +90°
TF tags	Polyester	++	-40 to +125°C
PUR strips	TPU	++	-25 to +80°C
PLIO strips	Soft PVC	++	-20 to +90°C
PLIO-M-MARKERS marking system	PVC	++	-20 to +90°C
Stainless steel strips	Stainless steel 316	++++	-80 to +500°C
PLIOMARK MINOX marking system	Stainless steel 316	++++	-80 to +500°C
MINOX PLUS marking system	Stainless steel 304	++++	-80 to +500°C
SL-HT cable ties	PA66 HT	++	-40 to +110°C
Cable ties for SM12 installations	PA 12	+++	-40 to +60°C
SM66+ installation clips	PA 6.6 modified	+++	-40 to +70°C
INOX-BALL-QUICK fasteners	Stainless steel 304 or 316	++++	-80 to +500°C
PLIOTER earthing clamp	Tin-plated bronze and electro-galvanised steel	++++	-80 to +500°C
Anchor base	PA 12	+++	-40 to +60°C
PLIOCATCH MU-Q 200 Solar	PA UV	++	-40 to +85°C



Protection and insulation - Protective tubing

- PLIOFINE B-EX heat-shrinkable tubingp. 5
- PLIOFINE B-EX-03 heat-shrinkable tubingp. 7
- PLIOSPIRE PTFE spiral sheathp. 8
- PLIOWELL PWAS corrugated flexible tubingp. 9
- End caps for PLIOWELL REC corrugated flexible conduitp. 9
- Accessories for PLIOWELL conduitsp. 10

Protection and insulation - Sealing accessories

- HELAVIA® DX sealing grommetsp. 14
- PLIO-PE cable glandp. 15
- PE-MT metal cable glandp. 16

Identification of installations

- PBC-LASER platesp. 17
- TA foam labels and stripsp. 18

Cable identification

- TF polyester tagsp. 19
- PUR stripsp. 19
- PLIOMARK-PRINT EOS5 printerp. 20

Marking - Labelling systems

- PLIO LASER engraved stripsp. 21
- PLIO-M-MARKERS marking systemp. 22
- LASER-engraved stainless steel stripsp. 24
- Embossed stainless steel stripsp. 25
- PLIOMARK MINOX labelsp. 26
- MINOX PLUS identification systemS. 28

Cable fasteners

- SL-HT cable tiesp. 29
- Cable ties for SES-SM installationsp. 30
- INOX-BALL-QUICK fastenerp. 31
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This document contains pages from the general catalogue





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our interactive map.





PLIOFINE B-EX Shrink ratio: 2:1

Material: cross-linked Polyolefin
Operating temperatures: -55 to +135°C
Min. shrink temperature: 120°C
Longitudinal change: ±5 %
Dielectric strength: 20 kV/mm
Flame resistance: self-extinguishing VW1 UL224
 V0 UL94
Chemical resistance: good to excellent according to MIL-DTL-23053/5
Application: The PLIOFINE B-EX heat shrinkable sleeve is versatile. It is used for mechanical and electrical protection. A wide range of colours also makes it ideal for cable identification.
Approval: UL 224



Standard colours:

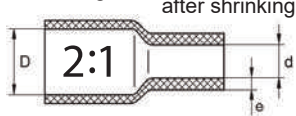


+ 005 (orange) 008 (purple) from types B-EX 240 to B-EX 2540:
 orange purple

Example for order:

code group	detail article	code colour
0739	XXXXXX	XXXX

before shrinking



after shrinking

type	before shrinking			cardboard reel		length of 1,22 m		dispenser box	
	D mm	d mm	e mm	artide number	m black colours	artide number	pce	artide number	m
B-EX 120	1,2	0,6	0,45	0739 0001 ***	150 150	0739 0021 ***	1	-	-
B-EX 160	1,6	0,8	0,45	0739 0002 ***	150 150	0739 0022 ***	1	0739 0210 ***	11
B-EX 240 ⁽¹⁾	2,4	1,2	0,51	0739 0003 ***	150 150	0739 0023 ***	1	0739 0220 ***	10
B-EX 320 ⁽¹⁾	3,2	1,6	0,51	0739 0004 ***	150 150	0739 0024 ***	1	0739 0230 ***	10
B-EX 480 ⁽¹⁾	4,8	2,4	0,51	0739 0005 ***	75 75	0739 0025 ***	1	0739 0240 ***	8
B-EX 640 ⁽¹⁾	6,4	3,2	0,64	0739 0006 ***	75 75	0739 0026 ***	1	0739 0250 ***	7
B-EX 950 ⁽¹⁾	9,5	4,8	0,64	0739 0007 ***	75 75	0739 0027 ***	1	0739 0260 ***	6
B-EX 1270 ⁽¹⁾	12,7	6,4	0,64	0739 0008 ***	50 50	0739 0028 ***	1	0739 0270 ***	5
B-EX 1600 ⁽¹⁾	16	8	0,76	0739 0016 ***	50 50	0739 0036 ***	1	0739 0275 ***	4
B-EX 1900 ⁽¹⁾	19	9,5	0,76	0739 0009 ***	50 30	0739 0029 ***	1	0739 0280 ***	3
B-EX 2540 ⁽¹⁾	25,4	12,7	0,89	0739 0010 ***	50 30	0739 0030 ***	1	0739 0290 ***	2
B-EX 3200	32	16	0,89	0739 0011 ***	50 30	0739 0031 ***	1	-	-
B-EX 3800	38,1	19	1,02	0739 0012 ***	50 30	0739 0032 ***	1	-	-
B-EX 5100	50,8	25,4	1,14	0739 0013 ***	50 30	0739 0033 ***	1	-	-
B-EX 7500	76,2	38,1	1,27	0739 0014 010	25 -	0739 0034 010	1	-	-
B-EX 10200	101,6	50,8	1,4	0739 0015 010	25 -	0739 0035 010	1	-	-

⁽¹⁾ Types B-EX 240 to B-EX 2540 are UL approved.

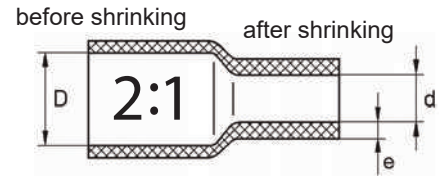




• PLIOFINE B-EX sleeves

only available in black.

Any other colours and lengths are available upon request.



type / length	D mm	d mm	e mm	artide number per length					Pces
				10 mm	15 mm	20 mm	30 mm	50 mm	
B-EX 120/**	1,2	0,6	0,45	0739 0059 010	0739 0071 010	0739 0083 010	0739 0108 010	-	1000
B-EX 160/**	1,6	0,8	0,45	0739 0060 010	0739 0072 010	0739 0084 010	0739 0109 010	-	1000
B-EX 240/**	2,4	1,2	0,51	0739 0061 010	0739 0073 010	0739 0085 010	0739 0110 010	-	1000
B-EX 320/**	3,2	1,6	0,51	0739 0062 010	0739 0074 010	0739 0086 010	0739 0111 010	-	1000
B-EX 480/**	4,8	2,4	0,51	-	0739 0075 010	0739 0087 010	0739 0112 010	-	1000
B-EX 640/**	6,4	3,2	0,64	-	-	0739 0088 010	0739 0113 010	-	1000/500
B-EX 950/**	9,5	4,8	0,64	-	-	-	0739 0114 010	-	500
B-EX 1270/**	12,7	6,4	0,64	-	-	-	0739 0115 010	-	500
B-EX 1600/**	16	8	0,76	-	-	-	0739 0118 010	0739 0166 010	500
B-EX 2540/**	25,4	12,7	0,89	-	-	-	0739 0117 010	0739 0165 010	500



• Sleeves - Kit PLIOFINE

Sturdy box for inside and outdoor use.

type	artide number
Kit PLIOFINE with 376 sleeves in pack	0739 0301 000



Box containing the following range of sleeves type B-EX:

Sleeves refills

type / length mm	D mm	d mm	e mm	colour					quantity per box pieces	artide number	pcs
				black 010	white 001	blue 002	yellow 004	red 007			
B-EX 240/45	2,4	1,2	0,51	X		X		X	120	0739 0311 ***	100
B-EX 320/50	3,2	1,6	0,51	X	X	X	X	X	125	0739 0320 ***	100
B-EX 480/45	4,8	2,4	0,51			X	X	X	51	0739 0331 ***	50
B-EX 640/50	6,4	3,2	0,64			X	X	X	36	0739 0340 ***	25
B-EX 950/100	9,5	4,8	0,64	X				X	18	0739 0350 ***	25
B-EX1270/100	12,7	6,4	0,64	X				X	14	0739 0360 ***	25
B-EX1900/200	19	9,5	0,76	X				X	12	0739 0370 ***	25





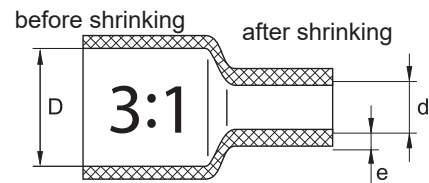
PLIOFINE B-EX-03 Shrink ratio: 3:1

Material:	cross-linked Polyolefin
Operating temperatures:	-55 to +135°C
Min. shrink temperature:	120°C
Longitudinal change:	±10 %
Dielectric strength:	24 kV/mm
Flame resistance:	self-extinguishing according to UL224 (all colours except natural)
	FMVSS 302 (natural)
Chemical resistance:	good to excellent according to MIL-DTL-23053/5



Example for order:

code group	detail article	code colour
0747	xxxxxx	xxxx



• Cardboard reel

type	art. no.					m	art. no.			D mm	d mm	e mm	
	black 010	white 001	blue 002	red 007	natural 018		yellow 004	brown 006	grey 013				
B-EX-03 150			0747 0010 xxx			150	0747 0010 004	300	0747 0010 xxx	300	1,6	0,5	0,45
B-EX-03 300			0747 0011 xxx			150	0747 0011 004	200	0747 0011 xxx	200	3,2	1	0,55
B-EX-03 480			0747 0012 xxx			75	0747 0012 004	75	0747 0012 xxx	200	4,8	1,5	0,6
B-EX-03 600			0747 0013 xxx			75	0747 0013 004	75	0747 0013 xxx	150	6,4	2	0,65
B-EX-03 900			0747 0014 xxx			75	0747 0014 004	75	0747 0014 xxx	150	9,5	3	0,75
B-EX-03 1200			0747 0015 xxx			50	0747 0015 004	50	0747 0015 xxx	100	12,7	4	0,75
B-EX-03 1800			0747 0016 xxx			30	0747 0016 004	30	0747 0016 xxx	50	19	6	0,85
B-EX-03 2400			0747 0017 xxx			30	0747 0017 004	30	0747 0017 xxx	50	25,4	8	1
B-EX-03 3900			0747 0018 xxx			30	0747 0018 004	30	0747 0018 xxx	30	39	13	1,15

• Dispenser box

Standard colour:

010	001	002	004	006	007	013	018
black	white	blue	yellow	brown	red	grey	natural

type	art. no.	D mm	d mm	e mm	m
B-EX-03 150	0747 0050 xxx	1,6	0,5	0,45	11
B-EX-03 300	0747 0051 xxx	3,2	1	0,55	8
B-EX-03 480	0747 0052 xxx	4,8	1,5	0,6	7
B-EX-03 600	0747 0053 xxx	6,4	2	0,65	6
B-EX-03 900	0747 0054 xxx	9,5	3	0,75	4
B-EX-03 1200	0747 0055 xxx	12,7	4	0,75	3
B-EX-03 1800	0747 0056 xxx	19	6	0,85	3
B-EX-03 2400	0747 0057 xxx	25,4	8	1	2

• Length of 1,22 m

Standard colour:

010
black

type	art. no.	D mm	d mm	e mm	pcs
B-EX-03 150	0747 0030 010	1,6	0,5	0,45	1
B-EX-03 300	0747 0031 010	3,2	1	0,55	1
B-EX-03 480	0747 0032 010	4,8	1,5	0,6	1
B-EX-03 600	0747 0033 010	6,4	2	0,65	1
B-EX-03 900	0747 0034 010	9,5	3	0,75	1
B-EX-03 1200	0747 0035 010	12,7	4	0,75	1
B-EX-03 1800	0747 0036 010	19	6	0,85	1
B-EX-03 2400	0747 0037 010	25,4	8	1	1



Spiral Binding

for Ø 2 to 20 mm depending on model

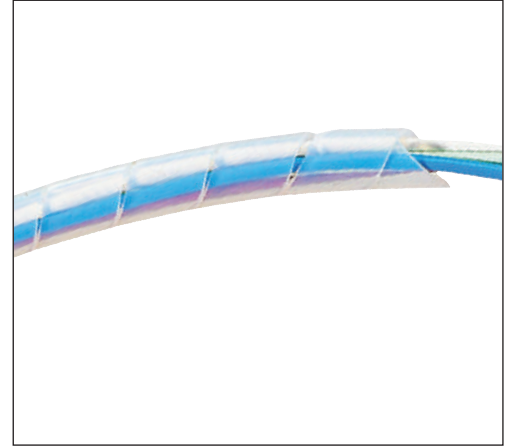



PLIOSPIRE



PLIOSPIRE

Materials:	PTFE polytetrafluorethylene for extreme temperatures
Colours:	natural (translucent)
Operating temperatures:	-200 to +260°C
Tensile strength:	20 MPa
Ultimate elongation:	300 %
Dielectric strength:	50 kV/mm
Flammability:	V0 UL94




type	article number PTFE natural 001	capacity Ø mm	Ø o.d. mm	wall thick- ness mm	helix pitch mm	 m
PTFE 3	0819 0019 001	2...7	3	0,5	5	10
PTFE 6	0819 0020 001	5...20	6	0,75	8	10*

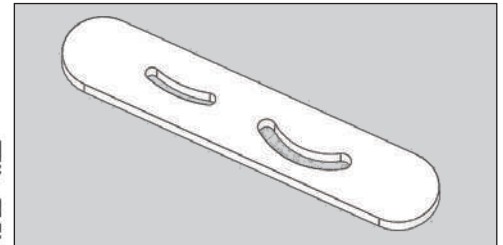
* To facilitate the hooping, a PLIOSPIRE guide is delivered with each package for type 6.

All PLIOSPIRE cable bindings can be supplied in customised lengths. Please ask our sales staff.

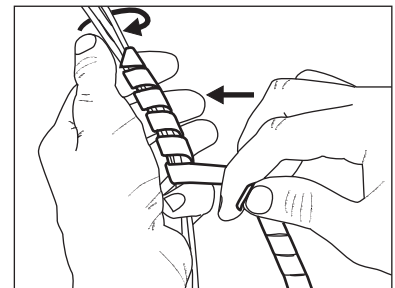
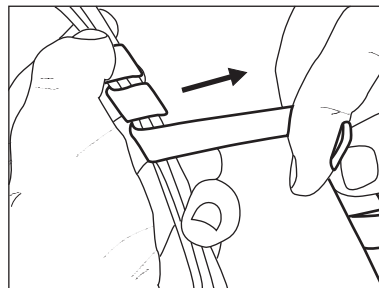
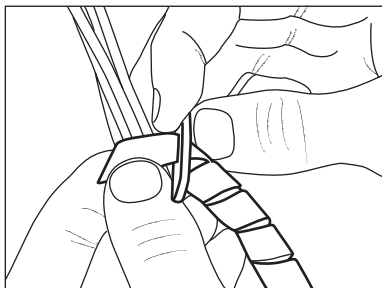
• PLIOSPIRE Tool (for easier application)

type	article number	for types	 pieces
Tool	0819 0101 001	6	10

Operating
instruction
in video



How to use the PLIOSPIRE tool:



Flexible corrugated conduit End caps for flexible conduit



PLIOWELL REC

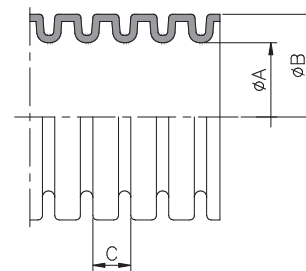


PWAS standard

Material: PA 6
Colour: black
Temperatures of use: -40 to +120°C
Resistance against crushing: 75 kg/100mm
Flame resistance: self-extinguishing to EN50086
Specifications: V2 according to UL94-LFH norm
 Halogen, phosphorus and sulphur free
 high resistance to UV (BK)
Applications: Used for various equipment and electrical instalations (harnesses, machine tools).



type	art. no.	Ø nominal mm	C *	Ø A mm	Ø B mm	bending radius mm	m
PWAS 10	0630 0110 010	10	F	6,3	10	15	50
PWAS 13	0630 0111 010	13	F	9,8	13	25	50
PWAS 16	0630 0112 010	16	F	11,8	15,8	40	50
PWAS 18	0630 0118 010	18	F	14	18,5	40	50
PWAS 21	0630 0113 010	21	F	16,7	21,2	45	50
PWAS 28	0630 0114 010	28	F	22,8	28,5	50	50
PWAS 34	0630 0115 010	34	L	28,1	34,5	60	50
PWAS 42	0630 0116 010	42	L	35,5	42,5	70	25
PWAS 54	0630 0117 010	54	L	47,2	54,5	80	25
PWAS 67	0630 0119 010	67	L	56,5	67,2	130	10



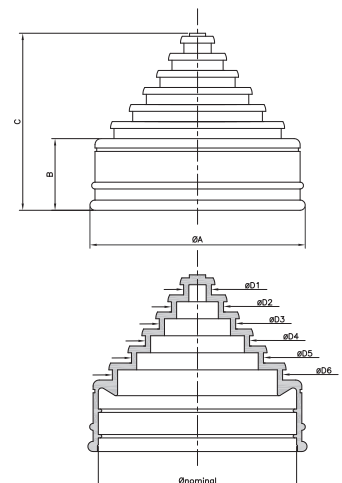
* Thread: F = narrow - L = large

REC

Material: thermoplastic elastomer
Colour: black
Temperatures of use: -50 to +125°C
Protection grade: IP65 / IP66
Hardness Shore A : 55 ± 5
Tensile strength at break: > 6 MPa
Ultimate elongation: > 500%
Dielectric strength: 35 kV/mm
Specifications: very good resistance to UV and oils, halogen, phosphorus and sulfur free
Applications : nozzle designed for the passage of cables at the ends of our flexible conduits PLIOWELL. The different cable entry diameters are specified on the nozzle to facilitate the cutting operation by the user. The assembly can be secured by the establishment of a cable tie (width max. 2.6 mm).

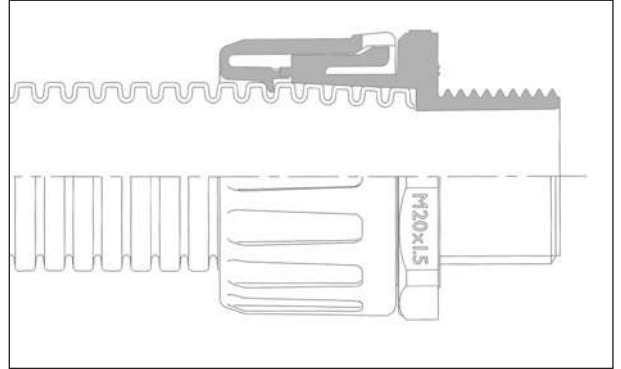


type	artide number	nominal Ø mm	Ø A mm	B mm	C mm	Ø D1 mm	Ø D2 mm	Ø D3 mm	Ø D4 mm	Ø D5 mm	Ø D6 mm	pces
REC 13	0631 1151 010	13	20,5	16	27	3	7	-	-	-	-	10
REC 16	0631 1152 010	16	22,7	17,5	33,6	3	7	11	-	-	-	10
REC 21	0631 1153 010	21	28,4	18,8	38,3	3	7	11	15	-	-	10
REC 28	0631 1154 010	28	36,2	19,8	40,8	3	9	15	21	-	-	10
REC 34	0631 1155 010	34	42,5	21	42,3	3	10	17	25	-	-	10
REC 42	0631 1156 010	42	51,3	21	47	5	12	19	26	34	-	10
REC 54	0631 1157 010	54	63,1	21	51,9	5	12	19	27	35	46	10



PLA

Material: PA 6.6
Colour: black
Operating temperatures: -40 to +135°C
Protection rating: IP66
Flame resistance: V2 UL94
Specifications: Halogen, phosphorus and sulphur free
 self extinguishing to EN 61386
Applications: used with all conduits PLIOWELL whatever the step. Clip-on system resistant to vibration and accidental opening.



• **Metric thread** delivered with lock-nuts

type	article number	Ø cable		pcs
		mm	thread	
PLA10-M12	0631 1000 010	10	M12	10
PLA13-M16	0631 1002 010	13	M16	10
PLA16-M16	0631 1003 010	16	M16	10
PLA16-M20	0631 1004 010	16	M20	10
PLA21-M20	0631 1005 010	21	M20	10
PLA28-M25	0631 1006 010	28	M25	10
PLA34-M32	0631 1007 010	34	M32	10
PLA42-M40	0631 1008 010	42	M40	2
PLA42-M50	0631 1009 010	42	M50	2
PLA54-M50	0631 1010 010	54	M50	2
PLA54-M63	0631 1011 010	54	M63	2
PLA67-M63	0631 1012 010	67	M63	1



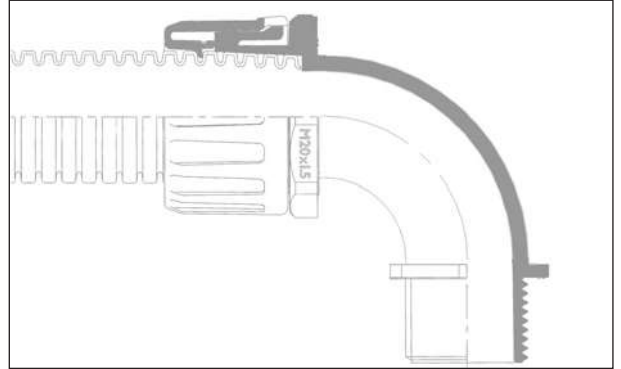
• **PG thread** delivered without lock-nuts

type	article number	Ø cable		pcs
		mm	thread	
PLA10-PG7	0631 1021 010	10	PG 7	10
PLA13-PG9	0631 1022 010	13	PG 9	10
PLA16-PG9	0631 1023 010	16	PG 9	10
PLA16-PG11	0631 1024 010	16	PG 11	10
PLA16-PG13	0631 1025 010	16	PG 13	10
PLA16-PG16	0631 1026 010	16	PG 16	10
PLA18-PG13	0631 1035 010	18	PG 13	10
PLA21-PG13	0631 1027 010	21	PG 13	10
PLA21-PG16	0631 1028 010	21	PG 16	10
PLA21-PG21	0631 1029 010	21	PG 21	10
PLA28-PG21	0631 1030 010	28	PG 21	10
PLA28-PG29	0631 1031 010	28	PG 29	10
PLA34-PG29	0631 1032 010	34	PG 29	10
PLA42-PG36	0631 1033 010	42	PG 36	2
PLA54-PG48	0631 1034 010	54	PG 48	2
PLA67-PG48	0631 1036 010	67	PG 48	1



PLA-90

Material: PA 6.6
Colour: black
Operating temperatures: -40 to +135°C
Protection rating: IP66
Flame resistance: V2 UL94
Specifications: Halogen, phosphorus and sulphur free
 self extinguishing to EN 61386
Applications: used with all conduits PLIOWELL whatever the step. Clip-on system resistant to vibration and accidental opening.



• **Metric thread** delivered with lock-nuts

type	article number	Ø cable mm	thread	pces
PLA10-M12-90	0631 1039 010	10	M12	10
PLA13-M16-90	0631 1040 010	13	M16	10
PLA16-M16-90	0631 1041 010	16	M16	10
PLA16-M20-90	0631 1042 010	16	M20	10
PLA21-M20-90	0631 1043 010	21	M20	10
PLA28-M25-90	0631 1044 010	28	M25	10
PLA34-M32-90	0631 1045 010	34	M32	10
PLA42-M40-90	0631 1047 010	42	M40	1
PLA54-M50-90	0631 1049 010	54	M50	1
PLA67-M63-90	0631 1050 010	67	M63	1



• **PG thread** delivered without lock-nuts

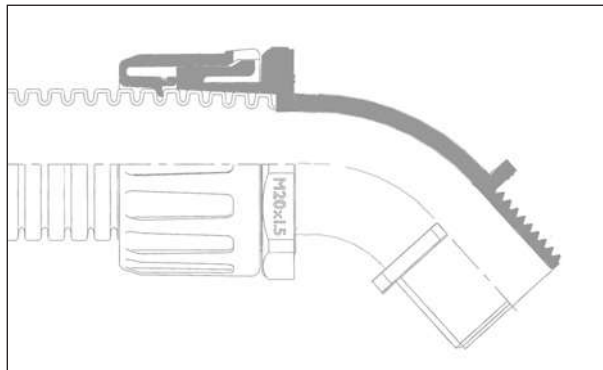
type	article number	Ø cable mm	thread	pces
PLA10-PG7-90	0631 1061 010	10	PG 7	10
PLA13-PG9-90	0631 1060 010	13	PG 9	10
PLA16-PG9-90	0631 1071 010	16	PG 9	10
PLA16-PG11-90	0631 1062 010	16	PG 11	10
PLA16-PG13-90	0631 1063 010	16	PG 13	10
PLA18-PG13-90	0631 1064 010	18	PG 13	10
PLA21-PG16-90	0631 1066 010	21	PG 16	10
PLA28-PG21-90	0631 1067 010	28	PG 21	10
PLA42-PG36-90	0631 1069 010	42	PG 36	1
PLA67-PG48-90	0631 1072 010	67	PG 48	1






PLA-45

Material: PA 6.6
Colour: black
Operating temperatures: -40 to +135°C
Protection rating: IP66
Flame resistance: V2 UL94
Specifications: Halogen, phosphorus and sulphur free
 self extinguishing to EN 61386
Applications: used with all conduits PLIOWELL whatever the step. Clip-on system resistant to vibration and accidental opening.




• **Metric thread** delivered with lock-nuts

type	article number	Ø cable mm	thread	 pcs
PLA16-M20-45	0631 1080 010	16	M20	10
PLA21-M20-45	0631 1081 010	21	M20	10
PLA28-M25-45	0631 1082 010	28	M25	10
PLA42-M50-45	0631 1084 010	42	M50	1
PLA54-M50-45	0631 1085 010	54	M50	1



• **PG thread** delivered without lock-nuts

type	article number	Ø cable mm	thread	 pcs
PLA16-PG13-45	0631 1101 010	16	PG 13	10
PLA21-PG13-45	0631 1102 010	21	PG 13	10
PLA21-PG16-45	0631 1103 010	21	PG 16	10
PLA28-PG21-45	0631 1104 010	28	PG 21	10
PLA34-PG29-45	0631 1105 010	34	PG 29	10
PLA42-PG36-45	0631 1106 010	42	PG 36	1






Clips PWCL

Material: PA 6.6
Colour: black
Operating temperatures: -40 to +135°C
Flame resistance: V2 UL94
Specifications: Halogen, phosphorus and sulphur free
 self extinguishing to EN 61386

Applications: monobloc support for conduit with a single passage for fast assembly. A simple pressure is enough to fix the conduit in the support. Secure lid. Fixing by screw M6. Ribbed interior to stop the traction on the conduit. Used with all PLIOWELL conduits whatever the step is.




type	artide number	Ø cable mm	 pces
PWCL10	0631 1130 010	10	10
PWCL13	0631 1131 010	13	10
PWCL16	0631 1132 010	16	10
PWCL18	0631 1139 010	18	10
PWCL21	0631 1133 010	21	10
PWCL25	0631 1138 010	25	10
PWCL28	0631 1134 010	28	10
PWCL34	0631 1135 010	34	10
PWCL42	0631 1136 010	42	5
PWCL54	0631 1137 010	54	5

Coupler PLA-PLA

Material: PA 6.6
Colour: black
Operating temperatures: -40 to +135°C
Flame resistance: V2 UL94
Specifications: Halogen, phosphorus and sulphur free
 self extinguishing to EN 61386

Applications: ideal to connect two identical conduits. To allow for example an extension.



type	artide number	Ø cable mm	 pces
PLA16-PLA16	0631 1140 010	16	10
PLA21-PLA21	0631 1141 010	21	10
PLA28-PLA28	0631 1142 010	28	10
PLA34-PLA34	0631 1143 010	34	10



Grommets DX in EPDM rubber



HELAVIA®



DX

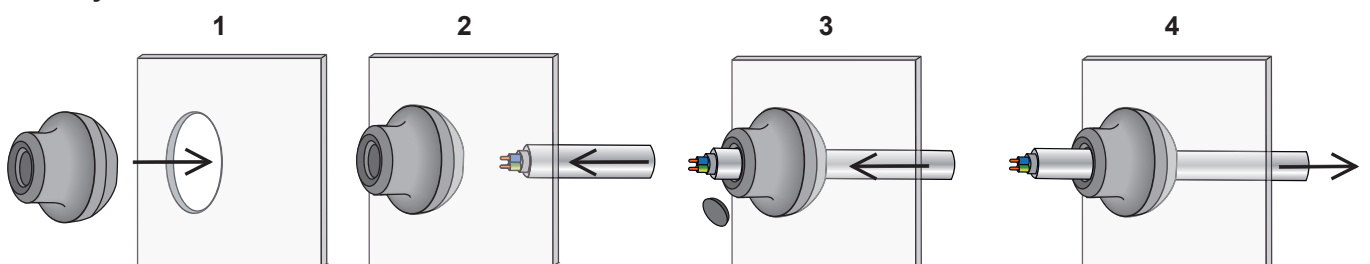
Material: EPDM
Colours: black
Operating temperatures: -40 to +100°C
Tensile strength at break: > 8 MPa
Ultimate elongation: > 400 %
Dielectric strength: > 13 kV/mm

Applications: for all exits of panels, enclosures and housings of all types, etc. Owing to the closed cover, it is possible to use it as a temporary seal for a later wiring. In order to introduce the cable, the cover can be perforated for example with the help of a screwdriver.



type	article number	hole Ø	Ø de câbles	dimensions (mm)			C	pcs	
				metal thickness	Ø A	Ø B			
DX 10 - 15	0252 0603 010	25,5	10 - 15	1 - 4	31	29	26	100	
DX 14 - 20	0252 0604 010	32,5	14 - 20	1 - 4	38	36	28	50	

Assembly instruction

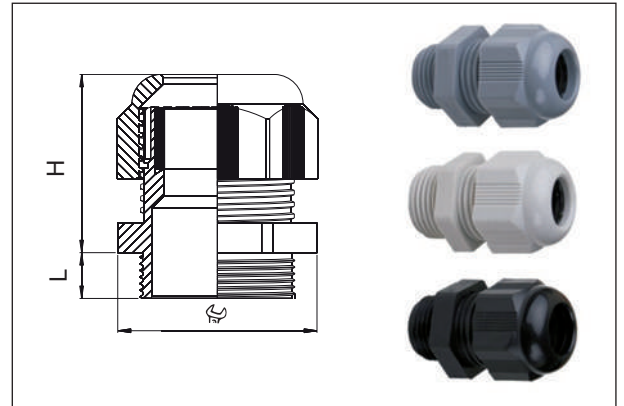




PLIO-PE

Material: Body: PA 6
O-ring: TPV
Colours: grey - black - light grey
Protection rating: IP 68
Operating temperatures: -20 to +100°C permanent
Specifications: EN62444

Applications : Anti-vibration mechanical tightening. Blocking part with multiple facets that guarantee an equal compression against cable and an optimal resistance against tensile strength.



Standard colours:



grey black light grey

Example for order:

code group	detail article	code colour
0636	0xxx	xxx

• Cable glands PG

type	article number	cable Ø mm	 mm	H mm	L mm	 press	Lock nut (to be ordered separately)
PLIO-PE PG 7	0636 0101 xxx	3 - 6,5	15	24	8	100	0636 0001 xxx
PLIO-PE PG 9	0636 0102 xxx	4 - 8	19	28	8	50	0636 0002 xxx
PLIO-PE PG 11	0636 0103 xxx	5 - 10	22	29	8	50	0636 0003 xxx
PLIO-PE PG 13,5	0636 0105 xxx	6 - 12	24	29	9	50	0636 0004 xxx
PLIO-PE PG 16	0636 0107 xxx	10 - 14	27	33	9	50	0636 0005 xxx
PLIO-PE PG 21	0636 0109 xxx	13 - 18	33	38	11	25	0636 0006 xxx
PLIO-PE PG 29	0636 0111 xxx	18 - 25	42	41	11	20	0636 0007 xxx
PLIO-PE PG 36	0636 0112 xxx	22 - 32	53	51	13	10	0636 0008 xxx
PLIO-PE PG 42	0636 0113 xxx	30 - 38	60	53	13	5	0636 0009 xxx
PLIO-PE PG 48	0636 0114 xxx	34 - 44	65	55	14	5	0636 0010 xxx

• Cable glands metric

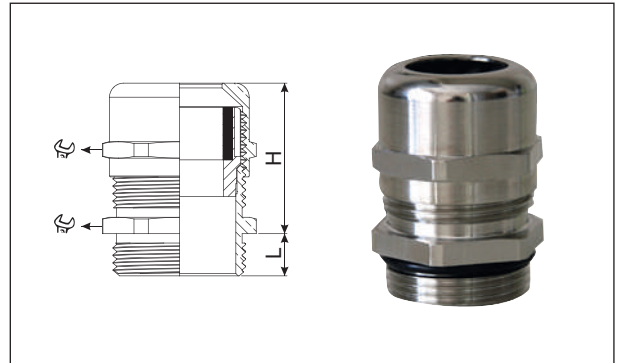
type	article number	cable Ø mm	 mm	H mm	L mm	 press	Lock nut (to be ordered separately)
PLIO-PE M12	0636 0120 xxx	3 - 6,5	15	24	15	100	0636 0020 xxx
PLIO-PE M16	0636 0121 xxx	5 - 10	22	29	15	50	0636 0021 xxx
PLIO-PE M20	0636 0122 xxx	6 - 12	24	29	15	50	0636 0022 xxx
PLIO-PE M25	0636 0125 xxx	13 - 18	33	38	15	25	0636 0023 xxx
PLIO-PE M32	0636 0127 xxx	18 - 25	42	41	18	20	0636 0024 xxx
PLIO-PE M40	0636 0128 xxx	22 - 32	53	51	18	10	0636 0025 xxx
PLIO-PE M50	0636 0129 xxx	30 - 38	60	53	18	5	0636 0026 xxx
PLIO-PE M63	0636 0130 xxx	34 - 44	70	55	18	5	0636 0027 xxx





PE-MT

Material body: nickel plated brass
internal seal: TPV
O-ring: NBR
lamellar insert: PA 6
Protection rating: IP 68
Operating temperatures: -20 to +100°C
Specifications: EN 62444 (metric)



Applications: Anti-vibration mechanical tightening. Blocking part with multiple facets that guarantee an equal compression against cable and an optimal resistance against tensile strength.



• Cable glands metric

type	art. no.	cable Ø mm	 mm	H mm	L mm	 pcs	Lock nut (to be ordered separately)
PE-MT M12	0636 0301 000	3 - 6,5	14	22	6	50	0636 0401 000
PE-MT M16	0636 0302 000	4 - 8	18	23	7	50	0636 0402 000
PE-MT M20	0636 0303 000	6 - 12	22	26,5	8	50	0636 0403 000
PE-MT M25	0636 0304 000	10 - 14	27	28	8	25	0636 0404 000
PE-MT M32	0636 0305 000	13 - 18	34	31,5	8	25	0636 0405 000
PE-MT M40	0636 0306 000	18 - 25	43	38	9	20	0636 0406 000
PE-MT M50	0636 0307 000	22 - 32	55	43	9	12	0636 0407 000
PE-MT M63	0636 0308 000	33 - 44	68	48	14	12	0636 0408 000

• Cable glands PG

type	art. no.	cable Ø mm	 mm	H mm	L mm	 pcs	Lock nut (to be ordered separately)
PE-MT PG 7	0636 0321 000	3 - 6,5	14	22	6	50	0636 0421 000
PE-MT PG 9	0636 0322 000	4 - 8	17	23	6	50	0636 0422 000
PE-MT PG 11	0636 0323 000	5 - 10	20	24,5	6	50	0636 0423 000
PE-MT PG 13	0636 0324 000	6 - 12	22	26,5	6,5	50	0636 0424 000
PE-MT PG 16	0636 0325 000	10 - 14	24	28	6,5	25	0636 0425 000
PE-MT PG 21	0636 0326 000	13 - 18	30	31,5	7	25	0636 0426 000
PE-MT PG 29	0636 0327 000	18 - 25	40	38	8	20	0636 0427 000
PE-MT PG 36	0636 0328 000	22 - 32	50	43	10	15	0636 0428 000
PE-MT PG 42	0636 0329 000	30 - 38	57	47	12	12	0636 0429 000
PE-MT PG 48	0636 0330 000	33 - 44	64	48	14	12	0636 0430 000

Bilayer plates engraved and cut with LASER



PBC-LASER



PBC-LASER

Material: acrylic
Thickness: 1.6 mm (other thicknesses on request)
Operating temperatures: -40 to 80 °C
UV resistance: excellent
Specification: halogen-free

Application: customised marking for all types of applications. All shapes are possible as well as all types of content (letters, numbers, images, codes, etc.). The two-layer composition of the plates provides an impeccable contrast for indelible marking, both indoors and outdoors. Suitable for public lighting, telecommunications, signage, railways etc.



Standard colour:

001	002	003	004	005	007	010	020	022
PBC	PBC	PBC	PBC	PBC	PBC	PBC	PBC	PBC
white	blue	green	yellow	orange	red	black	light blue	light green

Brushed metal colour:

IN	CU	OR
PBC	PBC	PBC
stainless steel	copper	gold

Other colours on request

article number

type	without adhesive	with adhesive
PBC-Laser 16	0380 0100 xxx	0380 0110 xxx

Example for order

code group	detail article	code colour
03800	XXXXX	XXXXX

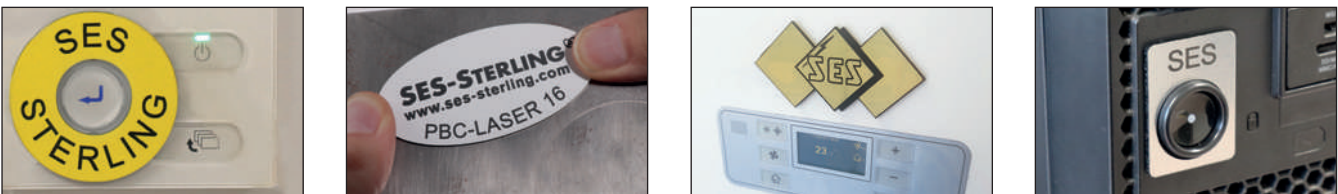
- **Data:** letters, numbers, images, drawings, QR-Code, barcode. Possibility of incrementing series.

ABCdef

123456

.ai, .dxf, .dwg,
bmp, .jpg, .png,
.eps, . pdf, .tif, ...

- **Form on request**



- **Fixing on demand** for fixing the plates with adhesive, cable ties, PLIO® strapping, rivets or screws.



- **Packaging:** in pre-cut sheets or in bulk. The sheets can be packaged in an order defined by the customer.





TA foam

Material: polyester foam
Adhesive: Acrylic
Operating temperature: -40 to +90°C
Specification: halogen free

Applications: designed for marking components in the industrial sector (panels, push buttons, ...), these adhesive consumables are an economical alternative to engraved plastic markings.




Colour :

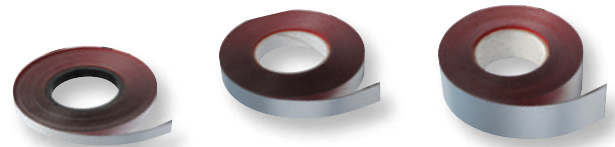
001 097
white silver

Example for order:


code group	detail article	code colour
0317	0xxx	xxx

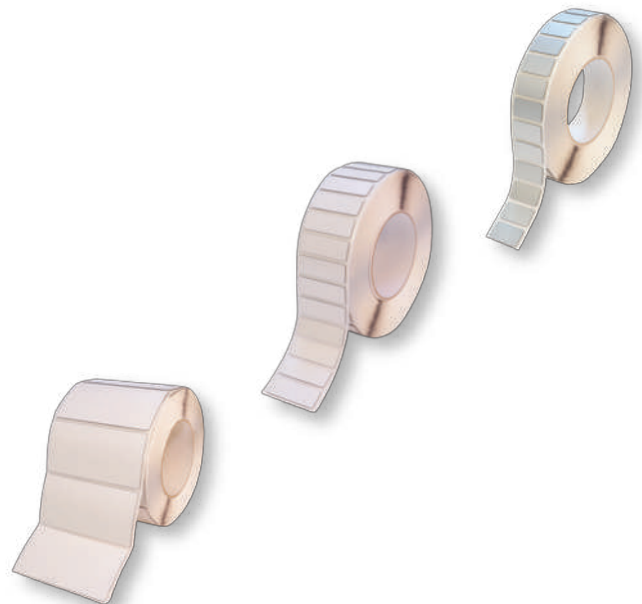
• **Bands TA foam**

type	artide number	width mm	quantity of meters/roll	 roll
TA 15x20	0317 0501 xxx	15	20	1
TA 25x20	0317 0502 xxx	25	20	1
TA 50x20	0317 0503 xxx	50	20	1



• **Labels TA foam**

type	artide number	width x length mm	quantity of labels/roll	 roll
TA 13-7	0317 0601 001	7 x 13	1000	1
TA 22-22	0317 0602 001	22 x 22	1000	1
TA 27-15	0317 0603 xxx	15 x 27	1000	1
TA 27-27	0317 0604 xxx	27 x 27	1000	1
TA 35-15	0317 0605xxx	15 x 35	1000	1
TA 40-30	0317 0606 001	30 x 40	1000	1
TA 45-15	0317 0607 xxx	15 x 45	1000	1
TA 45-25	0317 0608 xxx	25 x 45	1000	1
TA 50-15	0317 0609 xxx	15 x 50	1000	1
TA 50-25	0317 0610 xxx	25 x 50	750	1
TA 60-30	0317 0611 xxx	30 x 60	500	1
TA 90-30	0317 0613 xxx	30 x 90	250	1
TA 90-45	0317 0614 xxx	45 x 90	250	1
TA 100-30	0317 0615 xxx	30 x 100	250	1
TA 100-50	0317 0616 xxx	50 x 100	250	1
TA 100-70	0317 0617 xxx	70 x 100	250	1

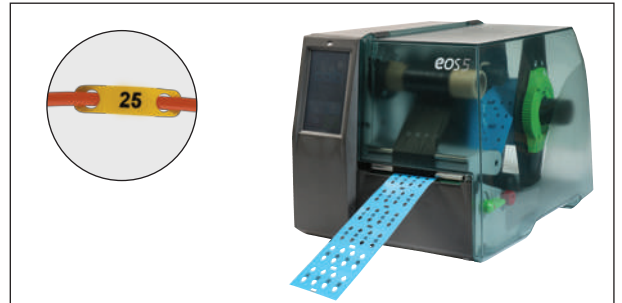




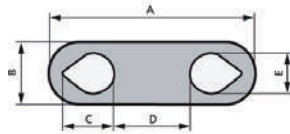
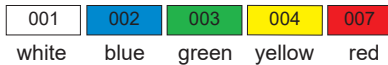
Strips TF

Material: polyester
Thickness: 0,175 mm
Operating temperature: -40 to +125°C
Specification: halogen-free

Applications: Designed for the pre-mounting marking of single conductors and fibreglass cables up to 16 mm² cross-section. Quick and easy installation.



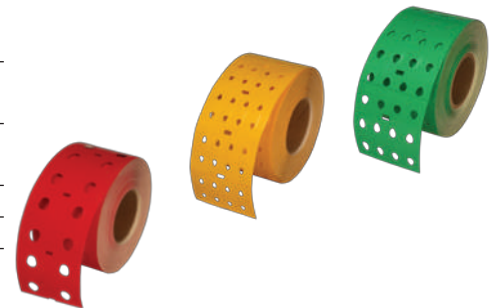
Colours:



Example for order:

code group	detail article	code colour
03170	xixx	xxx

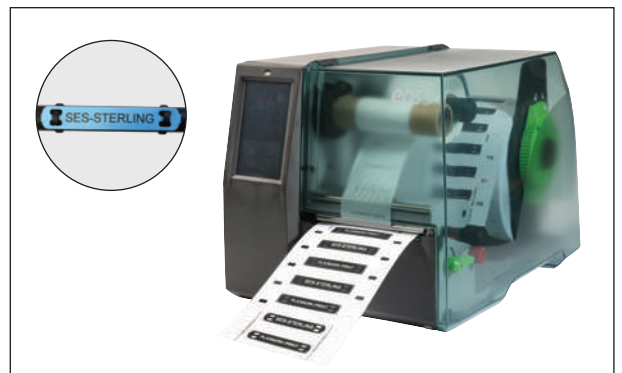
type	article number	for section mm ²	A mm	B mm	C mm	D mm	E mm	quantity of strips/roll	roll
TF1	0317 0201 xxx	0,75 - 1,5	23	5,2	4,9	11,2	3,5	2000	1
TF1L	0317 0202 xxx		34	5,2	5	22	3,5	2000	1
TF1B	0317 0203 xxx	1,5 - 2,5	25	5,7	5,9	11,2	4,2	2000	1
TF1BL	0317 0204 xxx		36	5,7	6	22	4,2	2000	1
TF2	0317 0205 xxx	2,5 - 6	26	7	6,5	11	5,5	2000	1
TF3	0317 0206 xxx	6 - 16	41	11	10,5	17	8,4	1000	1



Carriers PUR

Material: TPU
Thickness: 0,6 mm
Operating temperature: -25 to +80°C
Specification: halogen free
Fire resistance : V0 UL94

Applications: Extra-flexible carriers for use in industries with demanding environments and outdoors.
 Fixing with our SES-QUICK cable ties.



Colours:



Example for order:

code group	detail article	code colour
03170	xixx	xxx

type	article number	width x length mm	quantity of carriers/roll	roll
PUR 60 x 10	0317 0301 xxx	10 x 60	1000	1
PUR 75 x 25	0317 0302 xxx	25 x 75	500	1
PUR 100 x 60*	0317 0303 xxx	60 x 100	250	1

* Only available in the colours white (001) and yellow (004).



PLIOMARK-PRINT EOS5

Printer for strips, carriers, labels and foam strips



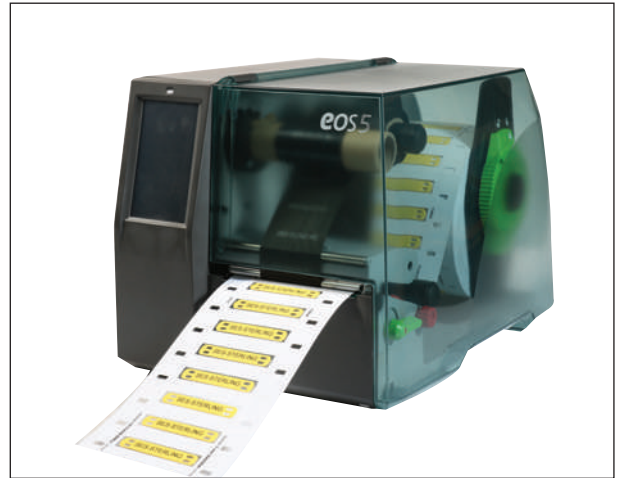
PLIOMARK-PRINT




PLIOMARK-PRINT EOS5

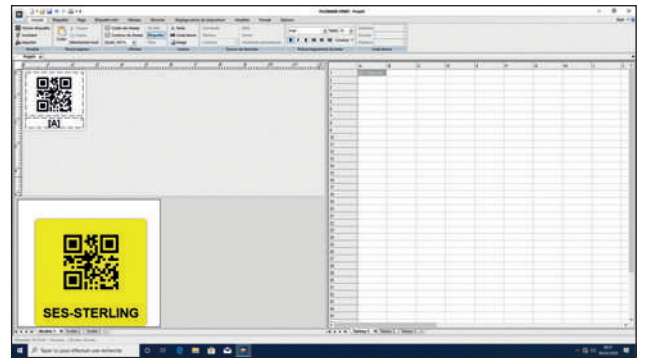
Weight: 5 kg
Dimensions (H x W x D): 245 x 264 x 412 mm
Printing speed: 150 mm/sec.
Resolution: 300 dpi
PC Connectivity: USB 2.0 Interface
Supported OS: Windows 10 and earlier up to version 7
Delivered with:
 1 power cable
 1 USB cable
 1 CD with Windows® driver and documentation

Applications: The EOS5 printer with software allows you to print on different media easily and quickly.



• PLIOMARK-PRINT EOS5 printer

type	article number	
PLIOMARK-PRINT EOS5 Supplied with complete licence	0317 0001 000	1




The complete licence allows :

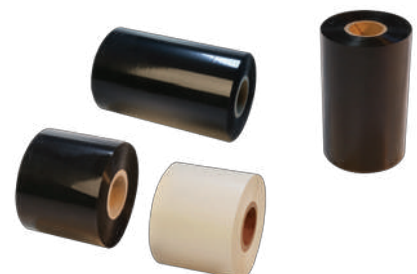
- to adapt the text to be printed according to the selected product,
- to print barcodes, QR codes, logos, other images,
- to have a library of images containing symbols used in electrical engineering.

You can download

- the software:
www.ses-sterling.com, **Products** section, then **Software and Media**.
- the operating instructions:
www.ses-sterling.com, **Products** section, then **Catalogue, Documentation and Notices**.

• Ink ribbons - Scratch and abrasion resistant printing

type	article number	colour	adapted for	width mm	length m	
R71 55-360	0317 0101 010	black	TF	55	360	1
FTI-Y 60-360	0317 0103 010	black	TF - TA - PUR	60	360	1
FTI-Y 110-360	0317 0104 010	black	TF - TA - PUR	110	360	1
FTI-X 55-300	0317 0105 001	white	TF - PUR	55	300	1
FTI-X 60-300	0317 0106 010		FTT	60	300	1



Operating instruction in video



PLIO® printed carriers LASER



PLIO® carriers

Material:	PP flame resistant	PVC flame resistant
Operating temperatures:	-20 to +90°C	-20 to +90°C
Flame resistance:	V0 UL94	V0 UL94
Specifications :	halogen free (HF)	-

Applications: our carriers are designed to respond to the need for speed of application, retro-marking, larger diameter cables and other applications.
Laser engraving guarantees a high-quality marking that is resistant to abrasion and environmental influences.



• Types of carriers

type	artide number	material	width mm
Carrier LASER PP 12 HF	0380 0070 000	PP	12
Carrier LASER PP 25 HF	0380 0080 000	PP	25
Carrier LASER PVC 12	0380 0001 000	PVC	12
Carrier LASER PVC 25	0380 0050 000	PVC	25

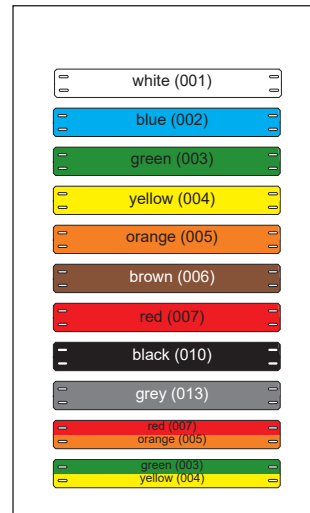
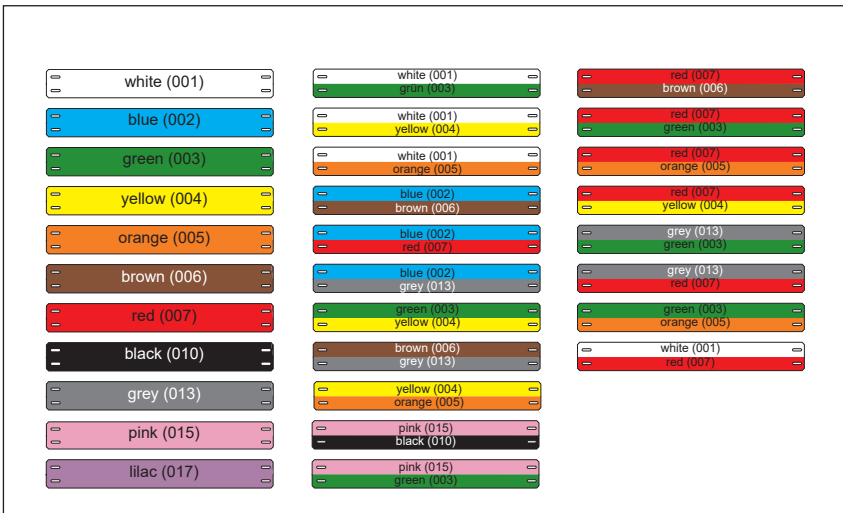
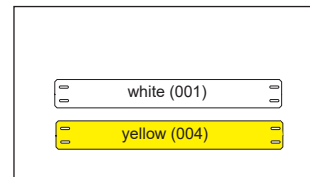
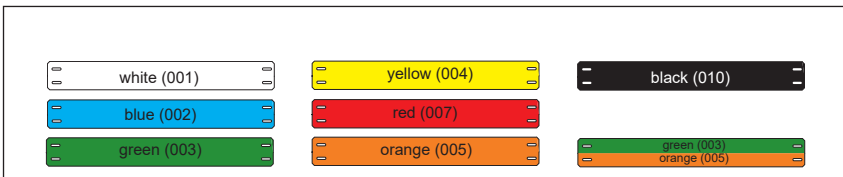
Length of the carrier: 200 mm maxi.



Print area: 140 mm max.

• Standard colours

Other colours upon request.



• Punching

Other punching upon request.



• Packaging: caterpillar, on adhesive cardboard or loose.

Max. width of the cable ties: 7,6 mm.



Identification system

with marker carriers

Accessories

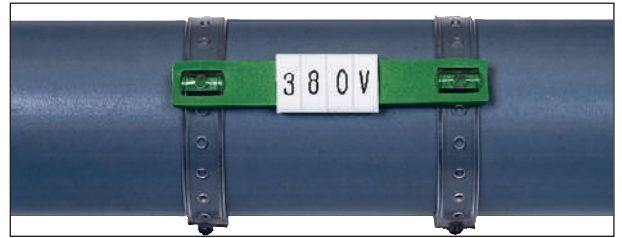


PLIO-MARKERS



PLIO® M-***

Material:	PVC	PE	
Operating temperatures:	-20 to +95°C	-50 to +85°C	
Shore hardness:	95 ±5 (Shore A)	44 (Shore D)	
Tensile strength at break:	20 MPa	16 MPa	
Ultimate elongation:	300 %	550 %	
Application:	for the identification of large cables and tubes.		



• Identification carrier PLIO® in PVC coloured for carrier markers M-65 + V-65

code colour	001	002	003	004	005	007	010
	white	blue	green	yellow	orange	red	black

type	article number	useful dimensions L x W (mm)	quant. of markers M-65/carrier	 pcs
M-008 PVC	0140 0011 ***	42 x 9,5	8	100
M-012 PVC	0140 0012 ***	62 x 9,5	12	100
M-024 PVC	0140 0013 ***	122 x 9,5	24	100

Example for order:

code group	detail article	code colour
0140	00XXXXXX	XX



• Identification carrier PLIO® in PE natural halogene free for carrier markers M-65 + V-65

type	article number	useful dimensions L x W (mm)	quant. of markers M-65/carrier	 pcs
M-008 PE	0140 0001 018	42 x 9,5	8	100
M-012 PE	0140 0002 018	62 x 9,5	12	100
M-024 PE	0140 0003 018	122 x 9,5	24	100



• Identification carrier PLIO® in PE natural halogene free for carrier markers M-40 - V-40

type	article number	useful dimensions L x W (mm)	quant. of markers M-40/barrette	 pcs
M-008/40 PE	0140 0004 018	48,5 x 4,7	8	100



• Cable strapping PLIO® in flexible PVC for PLIO-MARKERS carriers

type	article number	width (mm)	colours	 M
PLIO® 8 mm	0811 0001 010	8	black	50
PLIO® 8 mm	0811 0001 013	8	grey	50
PLIO® 8 mm	0811 0001 011	8	natural	50



• PLIO® fixing studs for PLIO® cable strapping

type	article number	material	 pcs
n°1 PS	0103 0001 010	polystyrene choc black	500
n°1 PA	0104 0009 010	polyamide black	500
n°1 PE	0130 0001 018	polyethylene natural	500

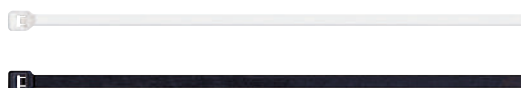


• Clamp for placing locking studs

type	art. no.	 pcs
2022 PLIOSTRAP-8	0362 8000 000	1

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maxi width 4,7 mm



Markers M-65 M2

on reels to identify carriers PLIO-M2

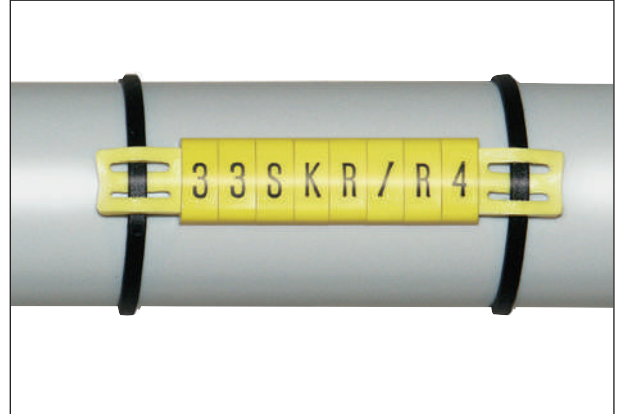


PLIO-M-MARKERS



PLIO® M-65 M2

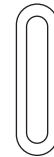
Material: flexible PVC
Operating temperatures: -20 to +90°C
Hardness Shore A: 80 ±5
Tensile strength at break: 18 MPa
Ultimate elongation: 280 %
Dielectric strength: > 20 kV/mm
Flame resistance: V0 UL94
M2 CSTB
Pack: reel with 500 markers
Application: for a use on PLIO® M2 carriers.



Example for order:

code group	detail article	code colour	code legend
0369	0001	X	X

A	0	3	6	9	0	0	0	1	0	0	4	A
+	0	3	6	9	0	0	0	1	0	0	1	+



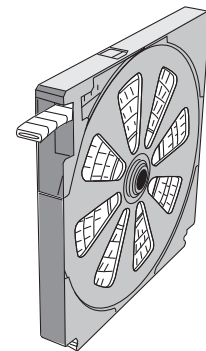
6.

code colour

010	006	007	005	004	003	002	008	013	001	015
black	brown	red	orange	yellow	green	blue	purple	grey	white	pink

code legends

A	A	0369 0001 *** A
B	B	0369 0001 *** B
C	C	0369 0001 *** C
D	D	0369 0001 *** D
E	E	0369 0001 *** E
F	F	0369 0001 *** F
G	G	0369 0001 *** G
H	H	0369 0001 *** H
I	I	0369 0001 *** I
J	J	0369 0001 *** J
K	K	0369 0001 *** K
L	L	0369 0001 *** L
M	M	0369 0001 *** M
N	N	0369 0001 *** N
O	O	0369 0001 *** O
P	P	0369 0001 *** P
Q	Q	0369 0001 *** Q
R	R	0369 0001 *** R
S	S	0369 0001 *** S
T	T	0369 0001 *** T
U	U	0369 0001 *** U
V	V	0369 0001 *** V
W	W	0369 0001 *** W
X	X	0369 0001 *** X
Y	Y	0369 0001 *** Y
Z	Z	0369 0001 *** Z
0	0	0369 0001 *** 0
1	1	0369 0001 *** 1
2	2	0369 0001 *** 2
3	3	0369 0001 *** 3
4	4	0369 0001 *** 4
5	5	0369 0001 *** 5
6	6	0369 0001 *** 6
7	7	0369 0001 *** 7
8	8	0369 0001 *** 8
9	9	0369 0001 *** 9
+	+	0369 0001 *** +
-	-	0369 0001 *** -
.	.	0369 0001 *** .
=	=	0369 0001 *** =
*	*	0369 0001 *** *
/	/	0369 0001 *** /
TER	TER	0369 0001 *** TER
ALT	ALT	0369 0001 *** ALT
OHM	OHM	0369 0001 *** OHM
010	010	0369 0001 010 0
006	006	0369 0001 006 1
007	007	0369 0001 007 2
005	005	0369 0001 005 3
004	004	0369 0001 004 4
003	003	0369 0001 003 5
002	002	0369 0001 002 6
008	008	0369 0001 008 7
013	013	0369 0001 013 8
001	001	0369 0001 001 9
015	015	0369 0001 015
+	+	0369 0001 007 +
-	-	0369 0001 002 -



reel with 500 markers



Strips INOX laser engraved

Personalised identification

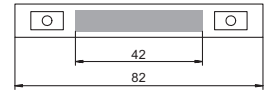
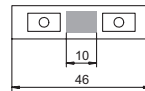


INOX laser

- Material:** stainless steel 316
- Operating temperatures:** -80 to +500°C
- Specifications:** good resistance to acids and chemicals, not flammable, excellent resistance to aging, unchanging
- Application:** for identifying cables and tubes in extreme conditions, use in harsh environments, corrosive atmospheres or high level of fire resistance.
- Engraving from computer files.
 - Engraved identification, indelible, proof and permanent.

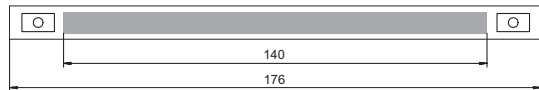
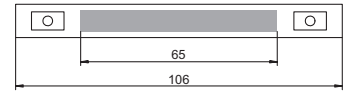
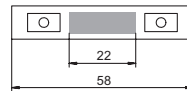


- **Characteristic:**
 - Alphanumeric legends, logos and drawing.
 - Lengths of the strips: 46, 58, 82, 106 and 176 mm.
 - Height of the strip: 10 mm, 14 mm.
 - Quantity of legends: depending on the size of characters.



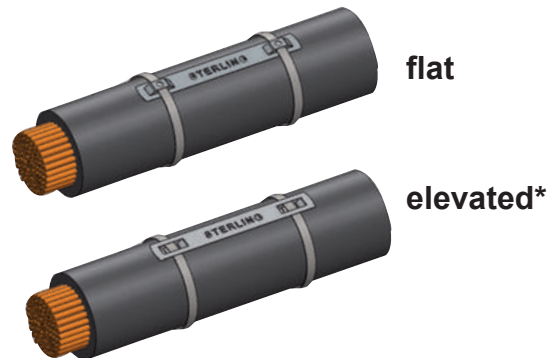
• Type of strips

type	article number
INOX LASER	0380 0225 000



- **Fixing system :** with our cable ties INOX-BALL-QUICK width 7,9 mm.

- **Packaging:**
 - on metallic cable ties
 - on adhesive sheet



Other requests, please consult us.

* recommended in the food industry.

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Strips INOX embossed

Personalised identification in relief



INOX embossed

- Material:** stainless steel 316
- Operating temperatures:** -80 to +500°C
- Specifications:** good resistance to acids and chemicals, not flammable, excellent resistance to aging, unchanging
- Application:** for identifying cables and tubes in extreme conditions, use in harsh environments, corrosive atmospheres or high level of fire resistance.
- Embossing from computer files.
 - Identification in relief indelible, proof and permanent.



- Characteristic:**
- Alphanumeric legends and symbols.
 - Lengths of the strips according to the text.
 - Height of the strip:
 - 10 mm for 1 line.
 - 14 mm for 2 lines.
 - Quantity of legends: from 1 to 25 legends (+ upon request) on 1 or 2 lines.
 - Size of the legends: 4,2 mm.

• Type of strips

type	artide number	quantity of lines	quantity legends/line
1L 1-15CAR	0380 0825 000	1	1...15
1L 16-25CAR	0380 0826 000	1	16...25
2L 1-15CAR	0380 0827 000	2	1...15
2L 16-25CAR	0380 0828 000	2	16...25

- Fixing system :**
with our cable ties INOX-BALL-QUICK width 7,9 mm.



flat



elevated*

- Packaging:**
- on metallic cable ties
 - on adhesive sheet

Other requests, please consult us.

* recommended in the food industry.

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PLIOMARK MINOX

Material: stainless steel 316
Size of the legends: 9,5 x 6 mm
Operating temperatures: -80 to +500°C
Flame resistance: non flammable
U.V.-rays resistance: good to excellent

Application:
 Marking of an installation and its components, cables, pipes, tubes, wire, etc... in hostile and corrosive environment. Marking system adaptable to all the needs: fixing by small rule-supports, bars or band of fixing.
 Particularly used in chemical industry, petrochemical, on the offshore platforms, shipyards, in the industry of the mining sectors, etc...



Available in strips.
 Every strip comprises 20 pre-cut PVC legends.



Example for order:

code group	detail article	code colour	code legend
0738	0311	000	x x x x

code legend

A	0738 0311 000 A	N	0738 0311 000 N	0	0738 0311 000 0	+	0738 0311 000 +
B	0738 0311 000 B	O	0738 0311 000 O	1	0738 0311 000 1	-	0738 0311 000 -
C	0738 0311 000 C	P	0738 0311 000 P	2	0738 0311 000 2	.	0738 0311 000 .
D	0738 0311 000 D	Q	0738 0311 000 Q	3	0738 0311 000 3	/	0738 0311 000 /
E	0738 0311 000 E	R	0738 0311 000 R	4	0738 0311 000 4	:	0738 0311 000 :
F	0738 0311 000 F	S	0738 0311 000 S	5	0738 0311 000 5	=	0738 0311 000 =
G	0738 0311 000 G	T	0738 0311 000 T	6	0738 0311 000 6	,	0738 0311 000 ,
H	0738 0311 000 H	U	0738 0311 000 U	7	0738 0311 000 7	~	0738 0311 000 ALT
I	0738 0311 000 I	V	0738 0311 000 V	8	0738 0311 000 8	⊥	0738 0311 000 TER
J	0738 0311 000 J	W	0738 0311 000 W	9	0738 0311 000 9		
K	0738 0311 000 K	X	0738 0311 000 X				
L	0738 0311 000 L	Y	0738 0311 000 Y				
M	0738 0311 000 M	Z	0738 0311 000 Z				

type	article number	img	pce
------	----------------	-----	-----

Strips with embossed legends (20 pre-cut legends)

MR 10 - 20	0738 0311 000 ***	1
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Unprinted legends for spacing (pre-cut legends)

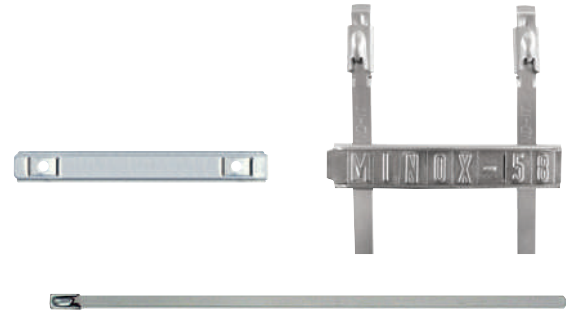
MRP 10 - 20	0738 0321 000	1
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type	article number	length mm	pces
Perforated carrier rails in stainless steel fixing with screw .			
PR 10 - M24	0738 0345 000	286	1
PR 10 - M9	0738 0346 000	106	1
PR 10 - M7	0738 0347 000	82	1
PR 10 - M5	0738 0348 000	58	1
PR 10 - M4	0738 0349 000	46	1



type	article number	length mm	pces
Plain carrier rails in stainless steel fixing with INOX cable ties			
PR 10 - NM24	0738 0350 000	286	1
PR 10 - NM11	0738 0355 000	176	1
PR 10 - NM9	0738 0351 000	106	1
PR 10 - NM7	0738 0352 000	82	1
PR 10 - NM5	0738 0353 000	58	1
PR 10 - NM4	0738 0354 000	46	1



INOX cable tie for PR10-NM carrier rail
see page C13/30-01

PLIOMARK MINOX case

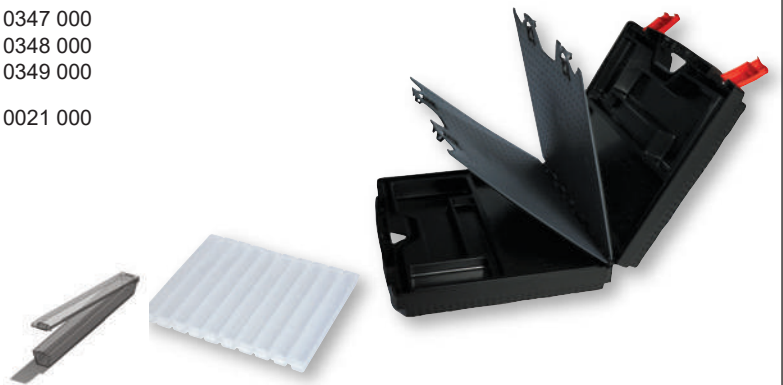
type	article number	pce
Complete case		
FLR KI	0738 0302 000	1

The case has a full assortment according detail:

type	article number
50 boxes for text holders	0738 0108 000
2 strips MR10-20 each marking	0738 0311 000
5 text holders PR10-NM24	0738 0350 000
5 text holders PR10-NM9	0738 0351 000
5 text holders PR10-NM7	0738 0352 000
5 text holders PR10-NM5	0738 0353 000
5 text holders PR10-NM4	0738 0354 000
5 text holders PR10-M24	0738 0345 000
5 text holders PR10-M9	0738 0346 000
5 text holders PR10-M7	0738 0347 000
5 text holders PR10-M5	0738 0348 000
5 text holders PR10-M4	0738 0349 000
10 cable ties INOX for text holders 200/46 N316	0187 0021 000



type	article number	pce
Empty case with partitions		
FL 5214 B-E	0738 0107 000	1
Transparent boxes for label holders		
FL 5216 SC	0738 0108 000	10



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MINOX PLUS

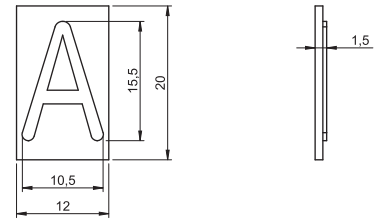
Material: 304 stainless steel
Marker size: 20 x 12 mm
Operating temperatures: -80 to +500°C
Fire resistance: non-flammable
UV resistance: excellent

Applications : The MINOX PLUS system is designed for marking installations and their components, cables, pipes, wires, etc. in outdoor and hostile indoor environments. The support strips can be fixed with metal ties (max. width 7.9 mm) or with flat head screws.

They are used in the food, chemical and medical industries.



QR-code on request



• MINOX PLUS markers

Supplied in sets with 20 identical markers

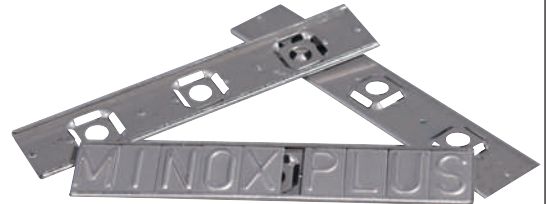
code markers

A	0738 0601 000 A	N	0738 0601 000 N
B	0738 0601 000 B	O	0738 0601 000 O
C	0738 0601 000 C	P	0738 0601 000 P
D	0738 0601 000 D	Q	0738 0601 000 Q
E	0738 0601 000 E	R	0738 0601 000 R
F	0738 0601 000 F	S	0738 0601 000 S
G	0738 0601 000 G	T	0738 0601 000 T
H	0738 0601 000 H	U	0738 0601 000 U
I	0738 0601 000 I	V	0738 0601 000 V
J	0738 0601 000 J	W	0738 0601 000 W
K	0738 0601 000 K	X	0738 0601 000 X
L	0738 0601 000 L	Y	0738 0601 000 Y
M	0738 0601 000 M	Z	0738 0601 000 Z

0	0738 0601 000 0
1	0738 0601 000 1
2	0738 0601 000 2
3	0738 0601 000 3
4	0738 0601 000 4
5	0738 0601 000 5
6	0738 0601 000 6
7	0738 0601 000 7
8	0738 0601 000 8
9	0738 0601 000 9

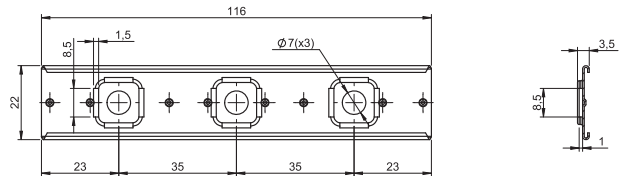
+	0738 0601 000 +
-	0738 0601 000 -
:	0738 0601 000 :
.	0738 0601 000 .

other symbols on request



• MINOX PLUS carrier rail

type	article number	max. number of markers	pcs
Carrier rail MINOX PLUS	0738 0606 000	9	20



• MINOX PLUS box, empty with storage buckets

type	article number	pc
MINOX PLUS box	0738 0607 000	1



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SL-HT cable ties black
for external use and/or at high temperatures
inside serrations
PA 6.6 black H.T.



SES-QUICK
-40 to +110°C



• **SL-HT cable ties**
resistant to UV radiation

type	article number	dimensions length x width mm	maximum bundle Ø mm	tensile strength mini. (daN)	
85/24 SL HT-M	0186 0110 010	85 x 2,4	16	8	1000
85/24 SL HT-C	0186 0111 010	85 x 2,4	16	8	100
100/25 SL HT-M	0186 0120 010 *	100 x 2,5	20	8	1000
100/25 SL HT-C	0186 0121 010	100 x 2,5	20	8	100
150/26 SL HT-M	0186 0122 010	150 x 2,6	40	8	1000
150/26 SL HT-C	0186 0123 010	150 x 2,6	40	8	100
200/26 SL HT-M	0186 0180 010 *	200 x 2,6	50	8	1000
200/26 SL HT-C	0186 0181 010	200 x 2,6	50	8	100
145/34 SL HT-M	0186 0130 010 *	145 x 3,4	35	13	1000
145/34 SL HT-C	0186 0131 010	145 x 3,4	35	13	100
210/34 SL HT-M	0186 0142 010	210 x 3,4	55	13	1000
210/34 SL HT-C	0186 0143 010	210 x 3,4	55	13	100
300/36 SL HT-M	0186 0232 010	295 x 3,6	76	13	1000
300/36 SL HT-C	0186 0233 010	295 x 3,6	76	13	100
370/36 SL HT-C	0186 0242 010	370 x 3,6	102	13	100
160/46 SL HT-M	0186 0124 010	160 x 4,6	38	22	1000
160/46 SL HT-C	0186 0125 010	160 x 4,6	38	22	100
185/46 SL HT-M	0186 0140 010	185 x 4,6	47	22	1000
185/46 SL HT-C	0186 0141 010	185 x 4,6	47	22	100
250/46 SL HT-M	0186 0126 010	250 x 4,6	60	22	1000
250/46 SL HT-C	0186 0127 010	250 x 4,6	60	22	100
300/46 SL HT-M	0186 0146 010	300 x 4,6	83	22	1000
300/46 SL HT-C	0186 0147 010	300 x 4,6	83	22	100
380/47 SL HT-C	0186 0150 010	380 x 4,7	109	22	100
180/76 SL HT-C	0186 0132 010	180 x 7,6	36	54	100
240/76 SL HT-C	0186 0144 010	240 x 7,6	50	54	100
300/76 SL HT-C	0186 0148 010	300 x 7,7	76	54	100
365/76 SL HT-C	0186 0160 010	365 x 7,6	100	53	100
550/90 SL HT-C	0186 0163 010	550 x 8,9	155	79	100
780/90 SL HT-C	0186 0162 010	775 x 8,9	230	79	100




* Packed per 10 bundles of 100 pieces.

Bag available with a European suspension hole.





	SM66+	SM12
Material:	Polyamide 6.6 modified	Polyamide 12
Colours:	black	black
Temperatures of use:	-40 to +70°C +120°C short time	-40 to +60°C +120°C short time
Specifications:	protected against U.V. HB UL94	protected against U.V. conform to norm NFC20540 HB UL94
Application:	For indoor and outdoor use	For indoor and outdoor use

type	article number	dimensions length x width mm	maximum bundle Ø mm	tensile strenght mini. daN	 pcs
Cable ties for installations SM66+ (in boxes)					
SM66+ 183/90 BK-C*	0189 0201 010	183 x 9	41	40	100
SM66+ 265/90 BK-C	0189 0202 010	265 x 9	63	51	100
SM66+ 355/90 BK-C	0189 0203 010	355 x 9	90	51	100
Cable ties for installations SM12 (in boxes)					
SM12-183/60 BK-C*	0189 0105 010	183 x 6	43	30	100
SM12-130/90 BK-C*	0189 0165 010	130 x 9	25	40	100
SM12-183/90 BK-C*	0189 0115 010	183 x 9	41	40	100
SM12-265/90 BK-C	0189 0125 010	265 x 9	63	51	100
SM12-355/90 BK-C	0189 0135 010	355 x 9	90	51	100
SM12-550/90 BK-C	0189 0145 010	550 x 9	150	55	100
SM12-780/90 BK-C	0189 0155 010	780 x 9	225	55	100



* Cable tie with "simple head".





INOX-BALL-QUICK

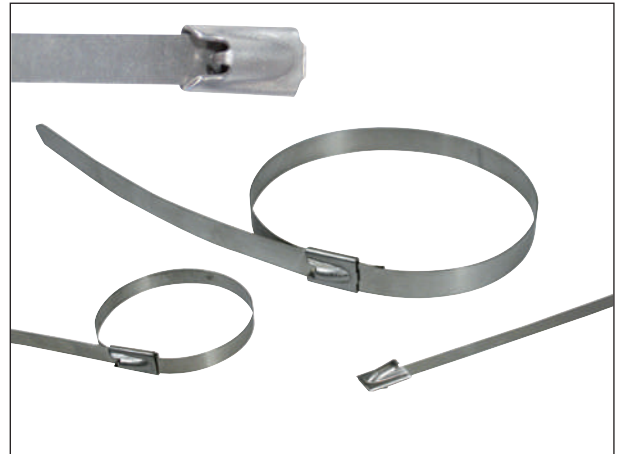
Material: stainless steel 304 or 316
Operating temperatures: -80 to +540°C
Thickness: 0,265 mm
Flame resistance: non-flammable
U.V. resistance: very good
Specification: certification UL 62275

Applications: for cables or flexible tubing.

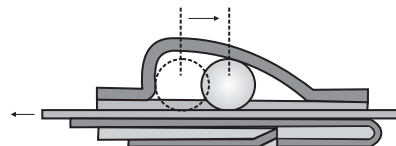
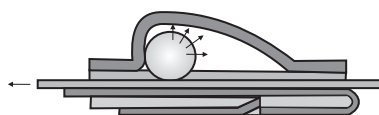
304: recommended in extreme temperature applications or flammable like food, chemical, medical ...

316: recommended in applications with risk of corrosion, such as shipbuilding, mining, petrochemical, textile ...

High resistance to **corrosion**.



Stainless steel 304		Stainless steel 316		dimensions length x width mm	maximum bundle Ø mm	tensile strength mini (daN)	 pcs
type	article number	type	article number				
IBQ 100/46 N304	0187 0007 000	IBQ 100/46 N316	0187 0027 000	100 x 4,6	18	44	100
IBQ 200/46 N304	0187 0001 000	IBQ 200/46 N316	0187 0021 000	200 x 4,6	50	44	100
IBQ 260/46 N304	0187 0002 000	IBQ 260/46 N316	0187 0022 000	260 x 4,6	69	44	100
IBQ 360/46 N304	0187 0003 000	IBQ 360/46 N316	0187 0023 000	360 x 4,6	100	44	100
IBQ 520/46 N304	0187 0004 000	IBQ 520/46 N316	0187 0024 000	520 x 4,6	151	44	100
IBQ 620/46 N304	0187 0005 000	IBQ 620/46 N316	0187 0025 000	620 x 4,6	183	44	100
IBQ 840/46 N304	0187 0006 000	IBQ 840/46 N316	0187 0026 000	840 x 4,6	253	44	100
IBQ 100/79 N304	0187 0018 000	IBQ 100/79 N316	0187 0037 000	100 x 7,9	18	111	100
IBQ 200/79 N304	0187 0011 000	IBQ 200/79 N316	0187 0031 000	200 x 7,9	50	111	100
IBQ 260/79 N304	0187 0012 000	IBQ 260/79 N316	0187 0032 000	260 x 7,9	69	111	100
IBQ 360/79 N304	0187 0013 000	IBQ 360/79 N316	0187 0033 000	360 x 7,9	100	111	100
IBQ 520/79 N304	0187 0014 000	IBQ 520/79 N316	0187 0034 000	520 x 7,9	151	111	100
IBQ 620/79 N304	0187 0015 000	IBQ 620/79 N316	0187 0035 000	620 x 7,9	183	111	100
IBQ 840/79 N304	0187 0016 000	IBQ 840/79 N316	0187 0036 000	840 x 7,9	253	111	100
IBQ 1000/79 N304	0187 0017 000	-	-	1000 x 7,9	304	111	100






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type	article number	description	for ties	weight g	 pces
K111	0187 0240 000	manual pulling and cutting	INOX-BALL-QUICK PLIOTER	550	1 
RR-G01	0187 0250 000	adjustable tension and automatic cut-off.	INOX-BALL-QUICK	550	1 



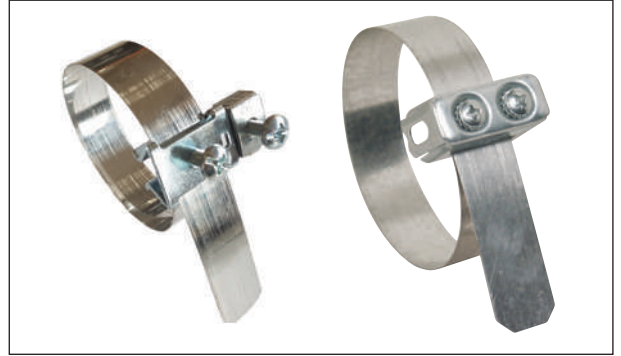
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PLIOTER earth straps

Strap: tinned bronze
Cap and wire-strainer: electrogalvanized steel
Section: 2,5 to 50 mm²
Specification: conform to norm NF C15-100
Application: designed for grounding electrical installations and metal conduits.
 The range covers a range of conductors from 2,5 to 50 mm² and tubes from 8 to 88 mm Ø.
 The flange and cable are fixed by screwing.

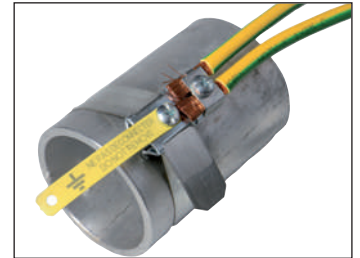


EQUIPOTENTIAL CONNECTIONS - CONNECTIONS TO EARTH - CONNECTIONS TO MASS (C.E.M.)

• Earth straps 2,5 to 25 mm²

Principle: separate tightening of the ground cable and the belt.

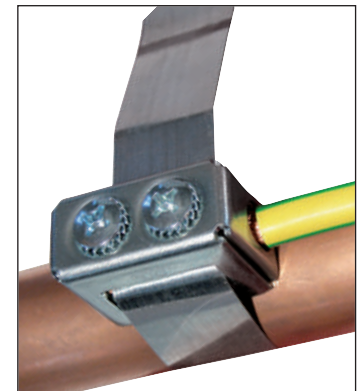
type	article number	for cable mm ²	for tube Ø mm	weight g/pce	length mm	width mm	thickness mm		
T25-2	0619 0008 000	2,5 ... 25	15 ... 48	51	195	25	0,25	7	
T25-3	0619 0009 000	2,5 ... 25	15 ... 88	59	330	25	0,25	6	



• Earth straps 2,5 to 50 mm²

Principle: double acting clamping. Contact is ensured by crushing the ground cable between the 2 layers of the tensioner.

type	article number	for cable mm ²	for tube Ø mm	weight g/pce	length mm	width mm	thickness mm		
T 11	0619 0007 000	2,5 ... 6	8 ... 28	5	150	6	0,25	20	
T 12	0619 0003 000	2,5 ... 10	16 ... 48	17	190	10	0,25	16	
T 13	0619 0004 000	2,5 ... 10	16 ... 88	20	325	10	0,25	15	
T 2	0619 0001 000	10 ... 16	16 ... 48	53	190	25	0,25	7	
T 3	0619 0002 000	10 ... 16	16 ... 88	61	325	25	0,25	6	
T 33	0619 0005 000	25 ... 35	16 ... 88	61	325	25	0,25	6	
T 50	0619 0006 000	50	16 ... 88	100	330	32	0,25	1	



Bag available with a European suspension hole.

• Tool for earth straps PLIOTER T11 - T12 - T13

type	article number	
T-2000	0619 0050 000	1



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For clamping and cutting our earth straps T11, T12 and T13.

Accessories- tie bases for cable ties SL - SE - SR and SM lashing ties

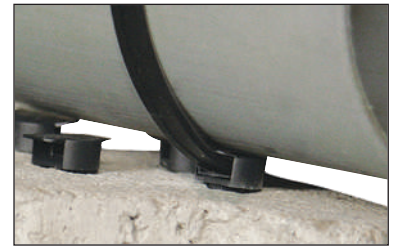


SES

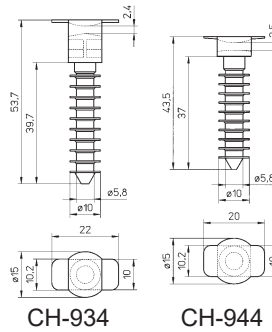


• Wall plug

The tie bases with wall plug in polyamide, black colour, are designed to be used with our cable ties for installation series SM width 9 mm.

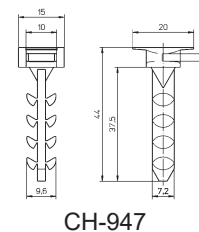
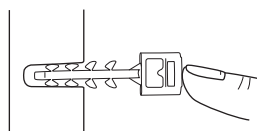
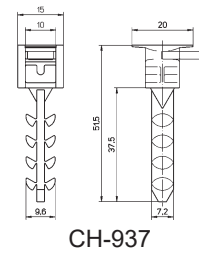


type	artide number	material	cable ties section max.	Ø bore mm	bore depth mm	pcs
Mounting with tool						
CH-934- 6	0189 0526 010	PA 6	2,4 x 10	8	41	100
CH-934-12	0189 0525 010	PA12	2,4 x 10	8	41	100
CH-944- 6	0189 0540 010	PA 6	2,5 x 10	8	38	100
CH-944-12	0189 0530 010	PA12	2,5 x 10	8	38	100



Manual mounting

CH-937- 6	0189 0541 010	PA 6	2,4 x 10	8	40	100
CH-937-12	0189 0542 010	PA12	2,4 x 10	8	40	100
CH-947- 6	0189 0543 010	PA 6	2,5 x 10	8	40	100
CH-947-12	0189 0544 010	PA12	2,5 x 10	8	40	100



PLIOCATCH MU-Q200 SOLAR

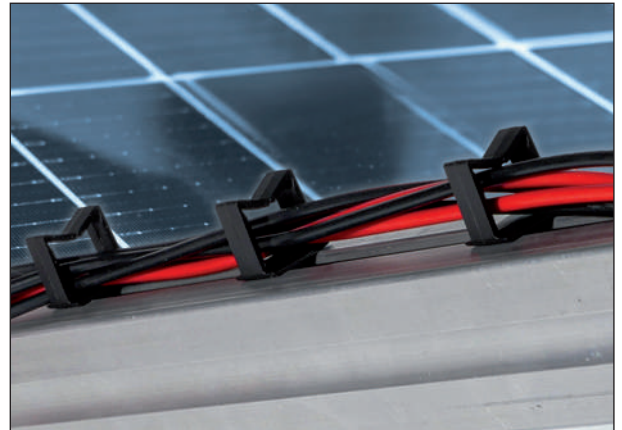
New

- Material:** PA
- Colour:** black
- Operating temperatures:** -40 to +85°C
- Flame resistance:** V2 UL94
- U.V. resistance:** good

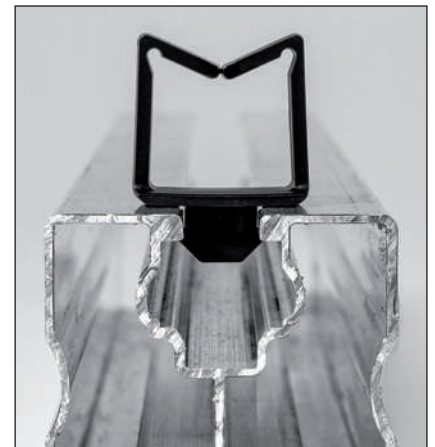
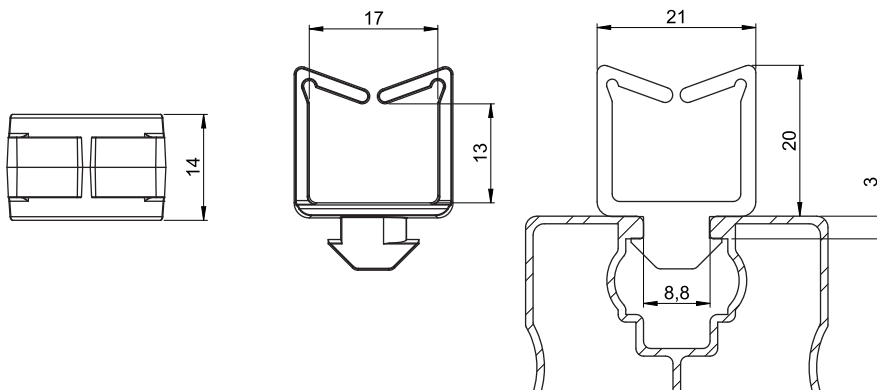
Application: The PLIOCATCH MU-Q200 SOLAR is an accessory designed for mounting on aluminium solar profiles with an 8.8 mm slot.

Once inserted into the slot, its hammer head can be locked in place by simply turning it a quarter-turn without the need for tools. Space-saving and non-lockable, it allows conductors to be added quickly with a simple press, and cables to be passed through in both horizontal and vertical positions.

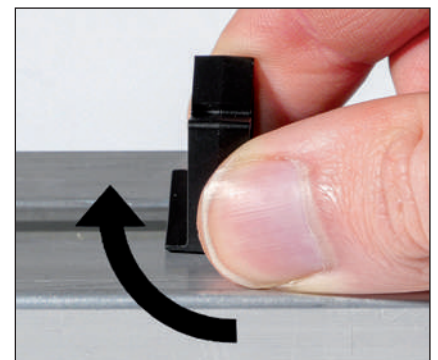
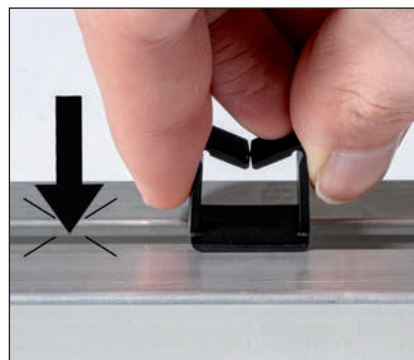
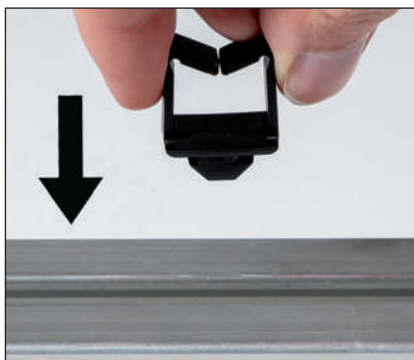
Application areas: photovoltaic



type	artide number	pcs
MU-Q200 SOLAR	0190 0522 010	100



Principle of use:



SES-5012 photovoltaic

Material: Zamak zinc alloy white
PVC insulated handles
Material blades: special tool steel
Sections: 1,5 - 2,5 - 4 - 6 mm²
Weight: 360 g
Length: 180 mm

PHOTOVOLTAIC



Same specifications as type SES-4010. The special photovoltaic stripping tool SES-5012 allows the stripping of specific cables with thick insulation with section from 1,5 to 6 mm², used in photovoltaic systems.

It has jaws designed for good retention of the insulation without scoring.

The new ergonomic handles provide a good grip and a comfortable working while limiting the effort of the user.


type	tool with blade article number	 pce
SES-5012	0414 0180 000	1

• **SES - 7 shear for steel and copper cables (up to Ø 5 mm)**

- In **high-grade steel**.
- Quick and **precise cut** of very tough stranded wire or electric cables.
- With **spring and locking mechanism**.
- **Insulated** handles.
- **Special cutting blades** with a very near axis, to perform cutting with **minimum effort**.
- All parts can be **replaced**.
- **Swiss made**.

type	maximum cutting capacity
Copper and alu. conductor	Ø 7 mm
Steel cable	Ø 5 mm
Spring steel	Ø 2,5 mm



type	article number	length mm	weight g	 pce
SES - 7 shear	0509 0007 000	200	300	1



• **SES ME - 60 cable shears for copper and aluminium conductors (up to 50 mm²)**

- To cut copper conductors.
- Shear in forged monobloc steel.
- Maximum cutting section: 50 mm².
- Concave blades hold the cable tightly while cutting.
- Plastic handles.

type	article number	length mm	weight g	 pce
ME - 60	0518 0108 000	235	360	1



• **SES KT - 20 for copper and aluminium conductors (70 mm²)**

- Cut copper and aluminium cables.
- Insulated handles.
- Security locking mechanism.
- Less manual effort.
- Black forged steel.

type	maximum cutting capacity
Rigid copper	16 mm ²
Semi-rigid copper	35 mm ²
Flexible copper	70 mm ²
Solid cable	4 x 6 mm ²
Telephone cable	Ø 20 mm
Semi-rigid aluminium	70 mm ²

type	article number	length mm	weight g	 pce
SES KT - 20 shear	0595 0015 000	215	390	1





SES-STERLING [®]
www.ses-sterling.com

All around the cable

WORKING WITH SES-STERLING

We at SES-STERLING take pride in the fact that since our family enterprise was created in 1928, we have managed to grow it into an internationally renowned cable accessories manufacturer that can guarantee fast worldwide delivery to its clients. We're considered as a forerunner in the transformation of raw materials into electrical wiring accessories mainly thanks to the fact that we manage and control the whole production process from A to Z. We can therefore guarantee you top quality and innovative products that are 100% "Made in France".

A strong research culture makes sure the cable protection, marking and fixing products manufactured by SES-STERLING are manufactured to fulfil the needs of all our customers. With more than 26000 product references our catalogue will be able to provide trusted products of any type our clients are seeking offering the best balance between price and quality, without having to compromise on creativity. What you really need is a continuous availability, fast delivery, sufficient stocks and efficient distribution. Thanks to these elements we are able to offer first-class responsiveness, troubleshooting and support for our partners.

Our specialised team of research and development engineers work all year round to be sure that the most effective raw material mixes are used in our products so that the end user will sleep soundly whenever completing a project. All products are constantly adapted for ease of use in the field.

The SES STERLING commercial and technical teams aim to be as close as possible to our all important clients with offices in Switzerland, Belgium, Germany and the United Kingdom. And thanks to our extensive partner network in 50 countries around the world we can offer our quality products to you in the time scale required. Our teams are always ready to listen to your feedback, suggestions and questions. Local contact is the key factor, not only can we respond to your needs, but we aim to fulfil them whenever they arise.

