

2022 01

Grafoplast™



do it better

IDENTIFICATION SYSTEMS



FFFva

Omaggio a Keith Haring per Grafoplast

CERTIFICATIONS KEY



REFERENCE DOCUMENT

Standards	
CEI EN 60068-2-11:2000	Environmental testing - Test Ka: salt fog
CEI EN 60068-2-78:2013	Environmental testing - Damp heat
CEI EN 60811-401:2014	Environmental testing - Ageing test in air oven
CEI EN 50305:2003 art. 5.2 p.q.a	Abrasion test
CEI EN 50305:2003 art. 8.1 e 8.2	Chemical resistance (oil and acid + alkali)
CEI EN 60695-11-5:2016	Fire behaviour test
CEI16-7:1997 art. 7.2	Indelebility test - Wipe resistance
ISO4892-2:2013	UV behaviour test
UL94	Material Flammability
UNI EN ISO7010:2021	Graphic Signs - Colours and Safety Signs Recorded
ISO 3864-1	Shape and colour of signs
ISO 3864-3	Design of graphic signs
UNI 7543-3:2009	Graphically uniform presentation of notices

ICONS KEY

Materials

Pc	POLYCARBONATE
AL	ALUMINUM
VINYL	VINYL
PO	RADIATED POLYOLEFIN
PMMA	POLYMETHYL METHACRYLATE
PVC	PVC
PET	POLYESTER
PA	POLYAMIDE
PC ACR	POLYCARBONATE ACRYLIC ADHESIVE
HDPE	HIGH-DENSITY POLYETHYLENE

PP	POLYPROPYLENE
AI	STAINLESS STEEL
LDPE	LOW-DENSITY POLYETHYLENE
POLIP	PROFESSIONAL IRRADIATED POLYOLEFIN
EVA	ETHYLENE-VINYL ACETATE
Ph	PHOTOLUMINESCENT VINYL
PUR	POLYURETHANE
PC/ABS	POLYCARBONATE/ACRYLONITRILE BUTADIENE STYRENE
POL M	POLYMER AND METAL
PC/ABS-MTD	POLYCARBONATE/ACRYLONITRILE BUTADIENE STYRENE METAL DETECTABLE

Characteristics

	ADHESIVE
	TEMPERATURE RANGE
	THICKNESS
	TRANSPARENT

	HALOGEN FREE
	SILICONE FREE
	PHOTOLUMINESCENT
	PHOTOLUMINESCENT

NOTE: The characteristics of the products contained in this catalogue may be modified for production requirements or for functional improvements of the products themselves. Our technical assistance is at your disposal to provide any information you may require.

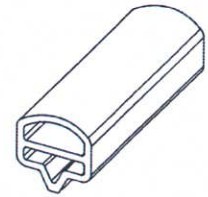
Diameters and cable sections cross reference table

Item	Ø (mm)	Item / for cable size (mm ²)																								
		0,14	0,25	0,5	0,75	1	1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300	400	500		
101	1 ÷ 2																									
102	2 ÷ 3																									
103	3 ÷ 4																									
104	4 ÷ 5																									
105	5 ÷ 6																									
106	6 ÷ 7																									
107	7 ÷ 8																									
108	8 ÷ 10																									
109	10 ÷ 12																									
110	12 ÷ 14																									
111	14 ÷ 16																									
112	16 ÷ 18																									
113	18 ÷ 20																									
114	20 ÷ 22																									
115	22 ÷ 25																									
116	25 ÷ 30																									
190	0.6 ÷ 1.2																									
201	1.5 ÷ 2.5																									
202	2 ÷ 4																									
203	4 ÷ 7																									
204	6 ÷ 10																									
205	10 ÷ 14																									
206	14 ÷ 22																									
207	22 ÷ 30																									
208	30 ÷ 35																									
209	35 ÷ 40																									
301	2 ÷ 3.5																									
302	2.8 ÷ 5																									
303	5 ÷ 8																									
304	8 ÷ 10																									
401	1.5 ÷ 2.5																									
402	2 ÷ 4																									
403	4 ÷ 7																									
404	6 ÷ 10																									
405	10 ÷ 14																									
406	14 ÷ 22																									
501	1.5 ÷ 2.5																									
502	2 ÷ 4																									
503	4 ÷ 7																									
504	6 ÷ 10																									
505	10 ÷ 14																									
802	2 ÷ 4																									
808	8 ÷ 10																									
809	10 ÷ 12																									
810	12 ÷ 14																									
811	14 ÷ 16																									

Notes: All the above data has an approximate value and refers exclusively to the diameters of single cores. The appreciate difference in outside diameters of similar cable sections, are the result of differences in the thickness of the insulation of the cables. When choosing a sleeve according to the cable section, please also refer to specific cable manufacturer's data.

Transparent sleeve 100 series

The shape and the material make it particularly appreciated for its rigidity and precision.



Ø ESTERNO mm	10 mm		12 mm		15 mm		18 mm		23 mm		30 mm		mt	
	STANDARD	HALOGEN FREE	STANDARD	HALOGEN FREE	STANDARD	HALOGEN FREE	STANDARD	HALOGEN FREE	STANDARD	HALOGEN FREE	STANDARD	HALOGEN FREE	STANDARD	HALOGEN FREE
1÷2	101/10	101HF/10	101/12	101HF/12	101/15	101HF/15	101/18	101HF/18	101/23	101HF/23	101/30	101HF/30	101/MT	101HF/MT
	1000 pcs.		1000 pcs.		1000 pcs.		1000 pcs.		1000 pcs.		500 pcs.		25 mt	
2÷3	102/10	102HF/10	102/12	102HF/12	102/15	102HF/15	102/18	102HF/18	102/23	102HF/23	102/30	102HF/30	102/MT	102HF/MT
	1000 pcs.		1000 pcs.		1000 pcs.		1000 pcs.		1000 pcs.		500 pcs.		25 mt	
3÷4	103/10	103HF/10	103/12	103HF/12	103/15	103HF/15	103/18	103HF/18	103/23	103HF/23	103/30	103HF/30	103/MT	103HF/MT
	1000 pcs.		1000 pcs.		1000 pcs.		500 pcs.		500 pcs.		500 pcs.		25 mt	
4÷5	104/10	104HF/10	104/12	104HF/12	104/15	104HF/15	104/18	104HF/18	104/23	104HF/23	104/30	104HF/30	104/MT	104HF/MT
	1000 pcs.		1000 pcs.		1000 pcs.		500 pcs.		500 pcs.		500 pcs.		25 mt	
5÷6	105/10	105HF/10	105/12	105HF/12	105/15	105HF/15	105/18	105HF/18	105/23	105HF/23	105/30	105HF/30	105/MT	105HF/MT
	1000 pcs.		1000 pcs.		1000 pcs.		500 pcs.		500 pcs.		500 pcs.		25 mt	
6÷7	106/10	106HF/10	106/12	106HF/12	106/15	106HF/15	106/18	106HF/18	106/23	106HF/23	106/30	106HF/30	106/MT	106HF/MT
	500 pcs.		500 pcs.		500 pcs.		500 pcs.		200 pcs.		200 pcs.		25 mt	40 x 0,5 mt
7÷8	107/10	107HF/10	107/12	107HF/12	107/15	107HF/15	107/18	107HF/18	107/23	107HF/23	107/30	107HF/30	107/MT	107HF/MT
	500 pcs.		500 pcs.		500 pcs.		500 pcs.		200 pcs.		200 pcs.		25 mt	40 x 0,5 mt
8÷10	108/10	108HF/10	108/12	108HF/12	108/15	108HF/15	108/18	108HF/18	108/23	108HF/23	108/30	108HF/30	108/MT	108HF/MT
	500 pcs.		500 pcs.		500 pcs.		200 pcs.		200 pcs.		200 pcs.		25 mt	40 x 0,5 mt
10÷12	109/10	109HF/10	109/12	109HF/12	109/15	109HF/15	109/18	109HF/18	109/23	109HF/23	109/30	109HF/30	109/MT	109HF/MT
	500 pcs.		500 pcs.		500 pcs.		200 pcs.		200 pcs.		200 pcs.		40 x 0,5 mt	
12÷14	110/10	110HF/10	110/12	110HF/12	110/15	110HF/15	110/18	110HF/18	110/23	110HF/23	110/30	110HF/30	110/MT	110HF/MT
	500 pcs.		500 pcs.		500 pcs.		200 pcs.		200 pcs.		200 pcs.		40 x 0,5 mt	
14÷16	111/10	111HF/10	111/12	111HF/12	111/15	111HF/15	111/18	111HF/18	111/23	111HF/23	111/30	111HF/30	111/MT	111HF/MT
	200 pcs.		200 pcs.		200 pcs.		200 pcs.		200 pcs.		100 pcs.		40 x 0,5 mt	
16÷18	112/10	112HF/10	112/12	112HF/12	112/15	112HF/15	112/18	112HF/18	112/23	112HF/23	112/30	112HF/30	112/MT	112HF/MT
	200 pcs.		200 pcs.		200 pcs.		100 pcs.		100 pcs.		100 pcs.		40 x 0,5 mt	
18÷20	113/10	113HF/10	113/12	113HF/12	113/15	113HF/15	113/18	113HF/18	113/23	113HF/23	113/30	113HF/30	113/MT	113HF/MT
	200 pcs.		200 pcs.		200 pcs.		100 pcs.		100 pcs.		100 pcs.		40 x 0,5 mt	
20÷22	114/10	114HF/10	114/12	114HF/12	114/15	114HF/15	114/18	114HF/18	114/23	114HF/23	114/30	114HF/30	114/MT	114HF/MT
	100 pcs.		100 pcs.		100 pcs.		100 pcs.		100 pcs.		50 pcs.		20 x 0,5 mt	
22÷25	115/10	115HF/10	115/12	115HF/12	115/15	115HF/15	115/18	115HF/18	115/23	115HF/23	115/30	115HF/30	115/MT	115HF/MT
	100 pcs.		100 pcs.		100 pcs.		50 pcs.		50 pcs.		50 pcs.		20 x 0,5 mt	
25÷30	116/10	116HF/10	116/12	116HF/12	116/15	116HF/15	116/18	116HF/18	116/23	116HF/23	116/30	116HF/30	116/MT	116HF/MT
	50 pcs.		50 pcs.		50 pcs.		50 pcs.		50 pcs.		50 pcs.		20 x 0,5 mt	
MATERIALI														
TEMPERATURA DI ESERCIZIO														
CERTIFICAZIONI														

Transparent sleeve 190 series

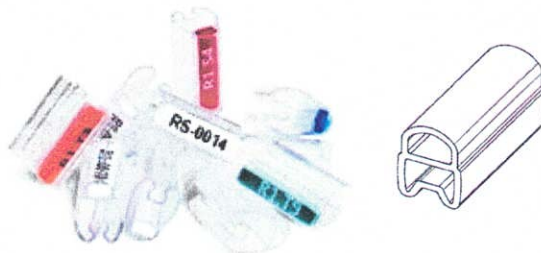
These sleeves have been properly designed to be used in electronic field where the cables standard diameters do not allow to be inserted in the standard sleeves.



Ø ESTERNO mm	10 mm	12 mm	15 mm	18 mm	23 mm	30 mm	mt
0,6÷1,2	190/10	190/12	190/15	190/18	190/23	190/30	190/MT
	1000 pcs.	1000 pcs.	1000 pcs.	500 pcs.	500 pcs.	200 pcs.	-
MATERIALI		TEMPERATURA DI ESERCIZIO				CERTIFICAZIONI	

Transparent sleeve 200 series (soft)

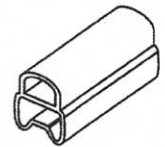
This sleeve, thanks to its shape that makes it more elastic, covers with fewer codes a wide range of cables.



Ø ESTERNO mm	10 mm		12 mm		15 mm		18 mm		23 mm		30 mm		MT	
	STANDARD	HALOGEN FREE	STANDARD	HALOGEN FREE	STANDARD	HALOGEN FREE	STANDARD	HALOGEN FREE	STANDARD	HALOGEN FREE	STANDARD	HALOGEN FREE	STANDARD	HALOGEN FREE
1,5÷2,5	201/10	201HF/10	201/12	201HF/12	201/15	201HF/15	201/18	201HF/18	201/23	201HF/23	201/30	201HF/30	201/MT	201HF/MT
	1000 pcs		1000 pcs		1000 pcs		1000 pcs		500 pcs		500 pcs		25 mt	
2÷4	202/10	202HF/10	202/12	202HF/12	202/15	202HF/15	202/18	202HF/18	202/23	202HF/23	202/30	202HF/30	202/MT	202HF/MT
	1000 pcs		1000 pcs		1000 pcs		1000 pcs		500 pcs		500 pcs		25 mt	
4÷7	203/10	203HF/10	203/12	203HF/12	203/15	203HF/15	203/18	203HF/18	203/23	203HF/23	203/30	203HF/30	203/MT	203HF/MT
	500 pcs		500 pcs		500 pcs		500 pcs		500 pcs		200 pcs		25 mt	
6÷10	204/10	204HF/10	204/12	204HF/12	204/15	204HF/15	204/18	204HF/18	204/23	204HF/23	204/30	204HF/30	204/MT	204HF/MT
	500 pcs		500 pcs		500 pcs		500 pcs		200 pcs		200 pcs		25 mt 40 x 0,5 mt	
10÷14	205/10	205HF/10	205/12	205HF/12	205/15	205HF/15	205/18	205HF/18	205/23	205HF/23	205/30	205HF/30	205/MT	205HF/MT
	200 pcs		200 pcs		200 pcs		200 pcs		200 pcs		200 pcs		40 x 0,5 mt	
14÷22	206/10	206HF/10	206/12	206HF/12	206/15	206HF/15	206/18	206HF/18	206/23	206HF/23	206/30	206HF/30	206/MT	206HF/MT
	200 pcs		200 pcs		200 pcs		200 pcs		100 pcs		100 pcs		40 x 0,5 mt	
22÷30	207/10	207HF/10	207/12	207HF/12	207/15	207HF/15	207/18	207HF/18	207/23	207HF/23	207/30	207HF/30	207/MT	207HF/MT
	50 pcs		50 pcs		50 pcs		50 pcs		50 pcs		50 pcs		20 x 0,5 mt	
30÷35	208/10	208HF/10	208/12	208HF/12	208/15	208HF/15	208/18	208HF/18	208/23	208HF/23	208/30	208HF/30	208/MT	208HF/MT
	50 pcs		50 pcs		50 pcs		50 pcs		50 pcs		50 pcs		20 x 0,5 mt	
35÷40	209/10	209HF/10	209/12	209HF/12	209/15	209HF/15	209/18	209HF/18	209/23	209HF/23	209/30	209HF/30	209/MT	209HF/MT
	50 pcs		50 pcs		50 pcs		50 pcs		50 pcs		50 pcs		20 x 0,5 mt	
MATERIALI		TEMPERATURA DI ESERCIZIO				CERTIFICAZIONI								
		Aggiungi MC dopo il codice articolo per ricevere il Maxi formato + Convenienza												

Transparent sleeve 400 series (rigid)

This sleeve is made of a raw material that makes it more rigid and can improve the obstruction space when applied.



Ø ESTERNO mm	10 mm		12 mm		15 mm		18 mm		23 mm		30 mm	
	STANDARD	HALOGEN FREE	STANDARD	HALOGEN FREE	STANDARD	HALOGEN FREE	STANDARD	HALOGEN FREE	STANDARD	HALOGEN FREE	STANDARD	HALOGEN FREE
1,5÷2,5	401/10	401HF/10	401/12	401HF/12	401/15	401HF/15	401/18	401HF/18	401/23	401HF/23	401/30	401HF/30
	1000 pcs		1000 pcs		1000 pcs		1000 pcs		500 pcs		500 pcs	
2÷4	402/10	402HF/10	402/12	402HF/12	402/15	402HF/15	402/18	402HF/18	402/23	402HF/23	402/30	402HF/30
	1000 pcs		1000 pcs		1000 pcs		1000 pcs		500 pcs		500 pcs	
4÷7	403/10	403HF/10	403/12	403HF/12	403/15	403HF/15	403/18	403HF/18	403/23	403HF/23	403/30	403HF/30
	500 pcs		500 pcs	500 pcs	500 pcs		500 pcs		500 pcs		200 pcs	
6÷10	404/10	404HF/10	404/12	404HF/12	404/15	404HF/15	404/18	404HF/18	404/23	404HF/23	404/30	404HF/30
	500 pcs		500 pcs		500 pcs		500 pcs		200 pcs		200 pcs	
10÷14	405/10	405HF/10	405/12	405HF/12	405/15	405HF/15	405/18	405HF/18	405/23	405HF/23	405/30	405HF/30
	200 pcs		200 pcs		200 pcs		200 pcs		200 pcs		200 pcs	
14÷22	406/10	406HF/10	406/12	406HF/12	406/15	406HF/15	406/18	406HF/18	406/23	406HF/23	406/30	406HF/30
	200 pcs		200 pcs		200 pcs		200 pcs		100 pcs		100 pcs	
MATERIALI			TEMPERATURA DI ESERCIZIO				CERTIFICAZIONI					
Aggiungi MC dopo il codice articolo per ricevere il Maxi formato + Convenienza												

Transparent sleeve 500 series (flat)

Specifically designed for PVC FLAT cable tags. Its elastic material helps to insert the tags more easily.

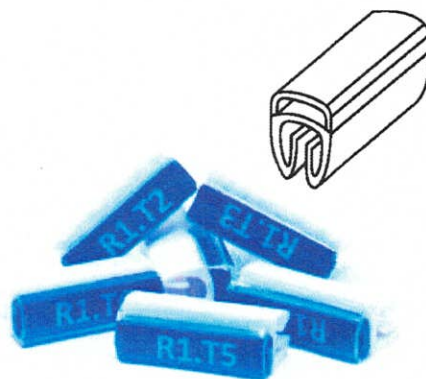


Ø ESTERNO mm	10 mm	12 mm	15 mm	18 mm	20 mm	23 mm	30 mm	IMMAGINE	
0,5÷1,2	590/10	590/12	590/15	590/18	590/20	590/23	590/30		
	1000 pcs.		1000 pcs.	1000 pcs.	1000 pcs.	1000 pcs.	1000 pcs.		1000 pcs.
1,5÷2,5	501/10	501/12	501/15	501/18	-	501/23	501/30		
	1000 pcs		1000 pcs	1000 pcs	1000 pcs	-	500 pcs		500 pcs
2÷4	502/10	502/12	502/15	502/18	-	502/23	502/30		
	1000 pcs		1000 pcs	1000 pcs	1000 pcs	-	500 pcs		500 pcs
4÷7	503/10	503/12	503/15	503/18	-	503/23	503/30		
	500 pcs		500 pcs	500 pcs	500 pcs	-	500 pcs		200 pcs
6÷10	504/10	504/12	504/15	504/18	-	504/23	504/30		
	500 pcs		500 pcs	500 pcs	400 pcs	-	200 pcs		200 pcs
10÷14	505/10	505/12	505/15	505/18	-	505/23	505/30		
	200 pcs		200 pcs	200 pcs	200 pcs	-	200 pcs	200 pcs	
MATERIALI			TEMPERATURA DI ESERCIZIO				CERTIFICAZIONI		
Aggiungi MC dopo il codice articolo per ricevere il Maxi formato + Convenienza									

Snap-On sleeve





Particularly suitable for marking the cable specially when the electrical connection has been already made. It saves a considerable amount of time.

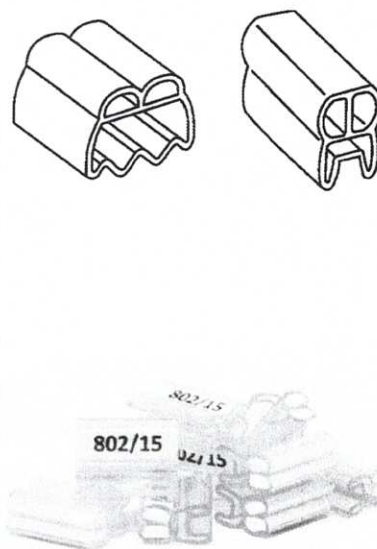
Ø ESTERNO mm	10 mm	15 mm	23 mm	30 mm
2÷3,5	301/10	301/15	301/23	301/30
	1000 pcs	1000 pcs	500 pcs	500 pcs
2,8÷5	302/10	302/15	302/23	302/30
	1000 pcs	1000 pcs	500 pcs	500 pcs
5÷8	303/10	303/15	303/23	303/30
	500 pcs	500 pcs	200 pcs	200 pcs
8÷10	304/10	304/15	304/23	304/30
	500 pcs	500 pcs	200 pcs	200 pcs
MATERIALI		TEMPERATURA DI ESERCIZIO		CERTIFICAZIONI
 				 



Dual recessed sleeve







Suitable to meet very detailed marking needs. The marking is set out in two rows.

Ø ESTERNO mm	15 mm	23 mm	30 mm	ROLL	IMMAGINE
2÷4	802/15	802/23	802/30	802/MT	
	500 pcs	200 pcs	200 pcs	25000 mm	
8÷10	808/15	808/23	808/30	808/MT	
	100 pcs	50 pcs	50 pcs	40 x 500 mm	
10÷12	809/15	809/23	809/30	809/MT	
	100 pcs	50 pcs	50 pcs	40 x 500 mm	
12÷14	810/15	810/23	810/30	810/MT	
	100 pcs	50 pcs	50 pcs	40 x 500 mm	
14÷16	811/15	811/23	811/30	811/MT	
	50 pcs	20 pcs	20 pcs	40 x 500 mm	
MATERIALI		TEMPERATURA DI ESERCIZIO		CERTIFICAZIONI	
 				 	













Tag holder for channel

TAG HOLDER - It is placed onto the channel by simple pressure.

mm	10 mm	12 mm	15 mm	18 mm	23 mm	30 mm	IMAGE
4	150/10	150/12	150/15	150/18	150/23	150/30	
	500 pcs	500 pcs	500 pcs	200 pcs	200 pcs	200 pcs	
MATERIALS		TEMPERATURE RANGE			CERTIFICATIONS		
 					 		

CHANNEL - Self-adhesive or by using screws. It is intended to house the tags

mm	500 mm		1000 mm		2000 mm		IMAGE
	ADHESIVE	NON ADHESIVE	ADHESIVE	NON ADHESIVE	ADHESIVE	NON ADHESIVE	
8,65	161/MT	160/MT	161/MT1	160/MT1	161/MT2	160/MT2	
	20 pcs	20 pcs	10 pcs	10 pcs	10 pcs	10 pcs	
MATERIALS		TEMPERATURE RANGE			CERTIFICATIONS		
 					 		
 							

Adhesive holder for components

It solves the problems of marking onto surfaces that offer no other fixing possibilities.

mm	10 mm	12 mm	15 mm	18 mm	23 mm	30 mm	IMAGE
4	140/10	140/12	140/15	140/18	140/23	140/30	
	500 pcs	500 pcs	500 pcs	200 pcs	200 pcs	200 pcs	
4	-	-	142/15	-	142/23	142/30	
	-	-	500 pcs	-	200 pcs	200 pcs	
4	840/10	840/12	840/15	840/18	840/23	840/30	
	200 pcs	200 pcs	200 pcs	100 pcs	100 pcs	100 pcs	
MATERIALS		TEMPERATURE RANGE			CERTIFICATIONS		

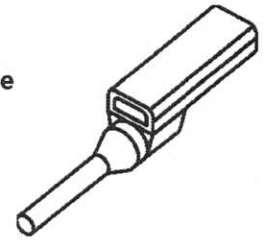


mm	ITEM	IMAGE
20 x 9	SI1002	
MATERIALS		TEMPERATURE RANGE

Spark™ pin terminal


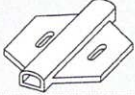
Spark offers the advantage of a combined cable-end connector and marker sleeve to guarantee a fast and innovative marking.

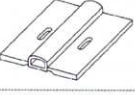
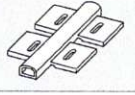
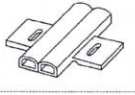
mm ²	PIN TERMINAL L.	COLOR	ITEM	
0,50	9	Orange	710/05	
	14		711/05	
0,75	9	White	710/07	
	14		711/07	
1	9	Yellow	710/10	
	14		711/10	
1,5	9	Red	710/15	
	14		711/15	
2,50	12	Blue	710/25	
	17		711/25	
4	12	Gray	710/40	
	17		711/40	
6	12	Green	710/60	
	17		711/60	
10	12	Brown	710/100	
	17		711/100	
AVAILABLE COLOURS		MATERIALS	TEMPERATURE RANGE	CERTIFICATIONS

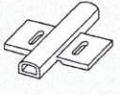



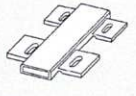
Sleeve for cable ties

Thanks to its structure formed by fins in which are inserted the normal ties, it allows to mark cables bundles and sheaths.

mm		CAVITY	ITEM	IMAGE
12 x 4	2000	single	SI0412	
18 x 4	2000		SI0418	
MATERIALS		TEMPERATURE RANGE		CERTIFICATIONS
PVC		-15°C +70°C		UL94V0 RINA

mm		CAVITY	ITEM	IMAGE
10 x 4	500	single	130/10	
15 x 4	500		130/15	
30 x 4	200	single	132/30	
30 x 4	200	double	830/30	
MATERIALS		TEMPERATURE RANGE		CERTIFICATIONS
PVC SF SILICONE FREE		-15°C +70°C		UL94V0 RINA

mm		CAVITY	ITEM		IMAGE
			STANDARD PVC	HDPE HALOGEN FREE	
23 x 4	200	single	130/23	130HF/23	
30 x 4	200	single	130/30	130HF/30	
20 x 9	240	single	SI1001	SIHFC1	
MATERIALS		TEMPERATURE RANGE		CERTIFICATIONS	
STANDARD PVC SF SILICONE FREE		-15°C +70°C		UL94V0 RINA	
HDPE HF HALOGEN FREE		-20°C +60°C			RINA

mm		CAVITY	ITEM		IMAGE
			STANDARD PVC	EVA HALOGEN FREE	
35 x 9	500	single	SI0935	SI0935HF	
70 x 9	250	single TRANSPARENT	SI0970	-	
MATERIALS		TEMPERATURE RANGE			
STANDARD PVC		-15°C +70°C		UL94V0 RINA	
EVA HF HALOGEN FREE		-30°C +60°C			