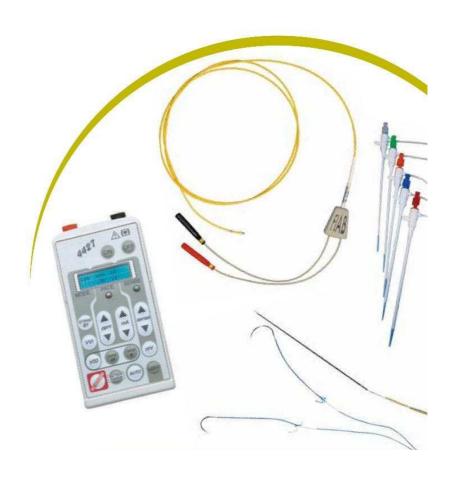




PRODUCT CATALOGUE

# CARDIAC RHYTHM MANAGEMENT

EXTERNAL PACEMAKERS
HEARTWIRES
TEMPORARY PACING
EP DIAGNOSTIC LEADS
CABLES AND ADAPTERS FOR EXTERNAL PACEMAKER
PSA PACING CABLES
INTRODUCERS
TRANSESOPHAGEAL RECORDING AND PACING



# EXTERNAL PACEMAKERS

## 1797 Dual chamber external pacemaker

FIAB 1797 is a temporary dual-chamber external pacemaker, intended for use in conjunction with cardiac pacing leads for temporary single or dual chamber pacing in a clinical environment. The temporary pacemaker can be used for reliable synchronous or asynchronous pacing and several stimulation modes are available along with the high rate atrial burst and ramp functions.

Easy to configure and operate and with a handy design, its principal characteristics are:

- Double display
- Different connection terminals available
- Progressive optical and acoustic battery alarm
- Automatic electrical continuity check
- High frequency 800 ppm (burst + ramp)
- Real-time and continous measurement of impedance and current intensity values
- Emergency function for the quick start of asynchronous stimulation with safety parameters
- Backup battery for the replacement of the main battery with no interruption of the patient stimulation.
- Lock / Unlock key
- Pause kev







PACING MODE	DDD, DDI, D00, VDD, VAT, DAI, DVI, AAI, AAO, AAT, VVI, V00, VVT
HI RATE FUNCTIONS	Burst, Decreasing ramp
RATE	30÷250 ppm (max BURST 800 ppm)
PACING PERIOD	2000÷240 ms (min BURST 75 ms)
PULSE DURATION	1 ms (ATRIAL)   1,5 ms (VENTRICULAR)
PULSE AMPLITUDE	0,2÷18 V
MAXIMUM SENSIVITY	0,2 mV (ATRIAL)   0,8 mV (VENTRICULAR)
AV DELAY	20÷400 ms (MANUAL)   50÷245 ms (AUTOMATIC)
PVRAP	10÷500 ms (MANUAL)   200÷300 ms (AUTOMATIC)

# 4427 EASYPACE - Single chamber external pacemaker

4427 EASYPACE is a single chamber external pacemaker providing reliable temporary stimulation, thanks to the microprocessor control of the parameters.

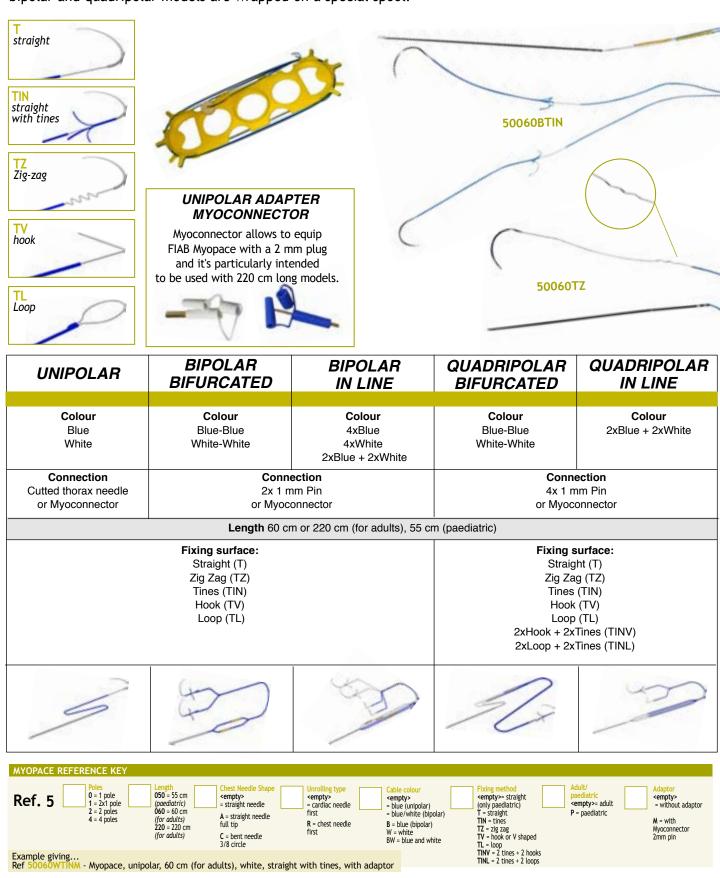
- Low battery indicator
- Standby battery for main battery replacement
- Autosense function for synchronous stimulation
- Atrial overdrive stimulation (burst and ramp)
- Antirunaway protection
- Alarm for electrode disconnection
- Impedance alarm for electrode disconnection

PACING MODE	VVI, V00, V00x4, AAI, A00, A00x4, decreasing ramp
RATE	30÷180 ppm (max BURST 720 ppm)
PACING PERIOD	2000÷333 ppm (min BURST 83 ms)
PULSE DURATION	1,4 ms
PULSE AMPLITUDE	0,4÷40 mA
MAXIMUM SENSITIVITY	0.75 mV



# **\*MYOPACE**\* HEARTWIRES

Myopace myocardial leads are sterile and disposable wires intended for temporary cardiac pacing after cardiac surgery. Made by a multi-stranded insulated wire, whose ends are fixed to the thorax needle (straight or curved) and to the heart needle, the range of electrodes includes unipolar, bipolar and quadripolar models, adult and pediatric, distinguished by the shape of the fixing surface (straight, zigzag, with tines, hook, loop). The colour of the insulation can be blue or white. Bipolar and quadripolar models can be supplied in bifurcated or in line configuration. Available lengths are 60 cm or 220 cm for adults and 55 cm or 220 cm for pediatric models. 220 cm bipolar and quadripolar models are wrapped on a special spool.

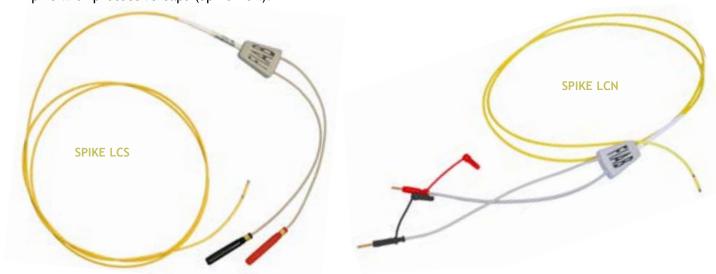


# TEMPORARY PACING

# \*SPIKE+

#### SPIKE LC

Temporary pacing SPIKE LC leads are designed to provide a reliable cardiac pacing and recording. The not braided shaft and the internal solid core allows a precise control without excessive stiffness. The leads are sterile, disposable, latex free and they are equipped with AISI stainless steel electrodes. The range of the preshaped curves include different solution for the positioning in the ventricle and atrium both through inferior and superior vena cava. The straight curve offer the possibility of pre-formation. SPIKE LC range is available with different diameters (4, 5 and 6 french) and electrode spacing. All models are equipped with touch proof 2 mm pins (Spike LCS) or with 2 mm pins with protective caps (Spike LCN).



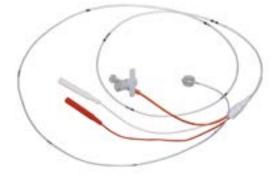
SPIKE LCS & LCN TECHNICAL FEATURES		
BODY	not braided shaft, Pebax	
ELECTRODES	AISI Stainless Steel	
POLES	2; 4	
INTER ELECTRODES DISTANCE	2; 2-5-2; 5; 10 mm	
CURVE	Cournand; Josephson; Damato; Straight	
WORKING LENGTH	60 cm; 80 cm; 90 cm; 125 cm	
SECTIONS	4F; 5F; 6F	

SPIKE LCS & LCN REFERENCE KEY				
Ref. 5  Poles 2 = 2 4 = 4  Curve 1 = straight 2 = cournand 3 = josephson 4 = damato	Inter-electrode distance (mm)   2 = 2   5 = 2-5-2   6 = 5   0 = 10   Diameter   4 = 4F   5 = 5F   6 = 6F	Series S = LCS N = LCN  S = LCN  Usable length (only LCN models) 6 = 60 cm 8 = 80 cm 9 = 90 cm 0 = 125 cm		
Example giving Ref 52266S - Spike LC S, 2 poles, Cournand, 5 mm inter-electrode distance, 6 French, touch-proof				

#### SPIKE FLOW

SPIKE FLOW is a bipolar pacing balloon catheter, intended for quick, reliable, temporary transvenous cardiac pacing and sensing. Thanks to the inflated balloon it is flow-directed and can be placed easily without fluor-oscopy during emergencies.

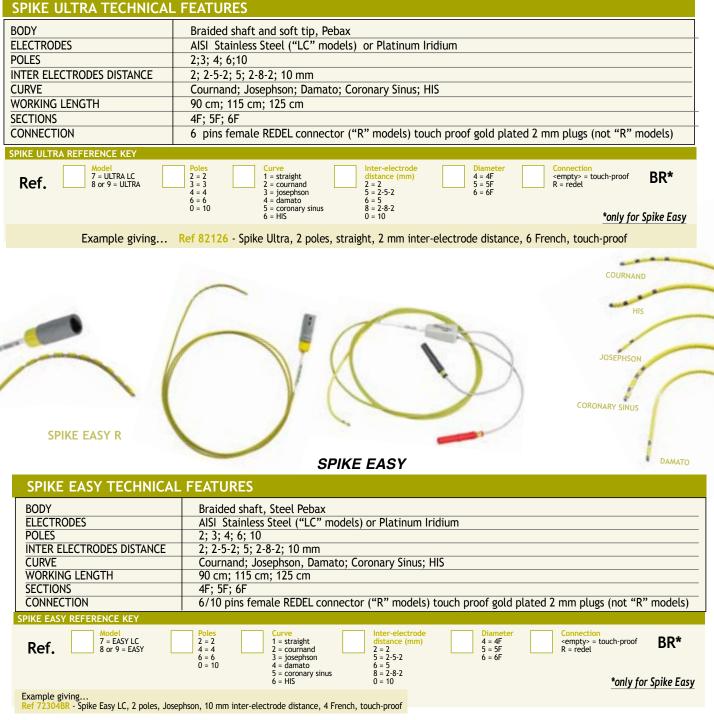
SPIKE FLOW TECHNICAL FEATURES			
REF	12165		
BODY	Polyurethane		
FRENCH 5F			
EFFECTIVE LENGTH	110 cm		
VOLUME OF BALLOON INFLATING	1,0 cc		
BALLOON DIAMETER	9 mm		
INTER ELECTRODES DISTANCE	10 mm		



# EP DIAGNOSTIC LEADS

FIAB diagnostic leads Spike ULTRA and SPIKE EASY are characterised by a braided shaft, made by Pebax with stainless steel braiding ed ensuring an excellent torqueability and longitudinal stability. Spike EASY is fully braided while Spike ULTRA has a not braided flexible distal section. The design and the wide range of models have been designed for a realiable, versatile and stable use during electrophysiologic studies (EPS) for an outstanding signal quality. The leads can be supplied with Platinum-Iridium electrodes (SPIKE ULTRA and SPIKE EASY) or stainless steel electrodes (SPIKE ULTRA LC and SPIKE EASY LC) with several fixed curvature, french sizes and interelectrode distances.

#### SPIKE ULTRA





#### **CONNECTING CABLES**

ref	poles	cable	connector
F5406/4REDS	4	150 cm	redel
F5406/6REDS	6	150 cm	redel
F5406/10REDS	10	150 cm	redel

# CABLES AND ADAPTERS FOR EXTERNAL PACEMAKER

## SHROUDED SOCKET 2 mm

DISPOSABLE			
ref	description		cable colour
F7817/30LC	Touch proof 2 mm shrouded plugs	Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, where the Owner, which is the Ow	grey
F7817/B30LC	Touch proof 2 mm shrouded plugs		blue
F7817/33LC	2 mm plugs with protective caps	- 1	grey
F7817/B33LC	2 mm plags with protective caps	77/	blue
F7817/MEDLC	Medtronic* type connector	4050 WHI	grey
F7817/BMEDLC	mean of the controller		blue
F7817/BIOLC	Biotronic* Redel type connector	-	grey
F7817/BBIOLC	Diotroffic Neder type confinector		blue
F7817/OSYLC	Osypka* type connector	VIII .	grey
F7817/BOSYLC	ecypila type collineate.		blue
	REUSABLE		
ref	description		cable colour
F7817/30	Touch proof 2 mm shrouded plugs		grey
F7817/33	Touch proof 2 mm shrouded plugs	_	grey
F7817/33E	2 mm plugs with protective caps		grey
F7817/MED	Medtronic* type connector	4000 0000	grey
F7817/BMED	Weditoriic type connector		blue

<sup>\*</sup> Brands, models and commercial names reported in this document belong to the companies owning the corresponding registered brands, models and names. FIAB is not affiliated to any of the above mentioned companies.

# SCREW SOCKET 0,6-2,0 mm DISPOSABLE

	DISPOSABLE	<b>( €</b> 2797
ref	description	cable colour
F7818/30LC	Touch proof 2 mm shrouded plugs	grey
F7818/B30LC	Todon proof 2 mm officuada plago	blue
F7818/33LC	2 mm plugs with protective caps	grey
F7818/B33LC	Z mm plage war protective sape	blue
F7818/MEDLC	Medtronic* type connector	grey
F7818/BMEDLC		blue
F7818/BIOLC		grey
F7818/BBIOLC	Biotronic* Redel type connector	blue
F7818/4BIOLC		grey
F7818/BRLC	Redel type connector	grey
F7818/OSYLC	Osypka* type connector	grey
F7818/BOSYLC	Osypha type connector	blue
	REUSABLE	(€2797
ref	description	cable colour
F7818/30	Touch proof 2 mm shrouded plugs	grey
F7818/B30	Todon proof 2 mm of roaded plage	blue
F7818/33	2 mm plugs with protective caps	grey
F7818/B33		blue
F7818/MED	Medtronic* type connector	grey
F7818/BMED		blue

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F7818/30LC

F7818/30

# SCREW SIDE SOCKET 0-2 mm

	SCHEW SIDE SOCKET 0-2 IIIIII	
	DISPOSABLE	€ 2797
ref	description	cable colour
F7819/30	Touch proof 2 mm shrouded plugs	grey
F7819/B30		blue
F7819/33	2 mm plugs with protective caps	grey
F7819/B33		blue
F7819/MED	Medtronic* type connector	grey
F7819/BMED		blue
F7819/BIO	Biotronic* Redel type connector	grey
F7819/BBIO		blue
F7819/OSY	Osypka* type connector	grey
F7819/BOSY		blue
	REUSABLE	CE
ref	REUSABLE description	cable colour
ref F7816/30	description	
		cable colour
F7816/30	Touch proof 2 mm shrouded plugs	grey
F7816/30 F7816/B30	description	grey blue
F7816/30 F7816/B30 F7816/33	Touch proof 2 mm shrouded plugs  2 mm plugs with protective caps	grey blue grey
F7816/30 F7816/B30 F7816/33 F7816/B33	Touch proof 2 mm shrouded plugs	grey blue grey blue
F7816/30 F7816/B30 F7816/33 F7816/B33 F7816/MED	Touch proof 2 mm shrouded plugs  2 mm plugs with protective caps  Medtronic* type connector	grey blue grey blue grey grey grey
F7816/30 F7816/B30 F7816/33 F7816/B33 F7816/MED F7816/BMED	Touch proof 2 mm shrouded plugs  2 mm plugs with protective caps	grey blue grey blue grey blue grey blue
F7816/30 F7816/B30 F7816/33 F7816/B33 F7816/MED F7816/BMED F7816/BIO	Touch proof 2 mm shrouded plugs  2 mm plugs with protective caps  Medtronic* type connector	grey blue grey blue grey blue grey grey grey grey







# **ADAPTERS**

NOT STERILE			
ref	description	pieces	
PG922/2TP2WG	from touch proof socket to 2 mm plug	2 pieces (red+black)	
PG922/2TP4WG	from touch proof socket to 2 mm plug	4 pieces (red+black+2 grey)	
PG922/2TPVR	from touch proof socket to 2 mm plug, with fixing screw	6 pieces (red)	
PG922/2TPVN	from touch proof socket to 2 mm plug, with fixing screw	6 pieces (black)	
	STERILE	€ 2797	
ref	description	pieces	
PG922/2TPS2	from touch proof socket to 2 mm plug	2 pieces (red+black)	
PG922/2TPS4	from touch proof socket to 2 mm plug	4 pieces (red+black+2 grey)	



# **PSA PACING CABLES**

Disposable sterile cables with black and red alligator clips or IS-1 connector intended for pacing and sensing threshold test.

TOUCH PROOF 2 mm PLUGS				
ref	connection	cable		
F7830S	touch proof 2 mm plug	200 cm grey cable		
F7831S	touch proof 2 mm plug	200 cm blue cable	100	
F7832S	touch proof 2 mm plug	400 cm blue cable	HOVE	
	2 mm PLUG	 <i>S</i>		
ref	connection	cable		
F7833	2 mm plug with protective cap	200 cm grey cable		
F7833/4	2 mm plug with protective cap	400 cm grey cable		
F7833E	2 mm elastic plug with protective cap	200 cm grey cable	- 44	
F7834	2 mm plug with protective cap	200 cm blue cable		
	4 mm SOCKE	 <b>=T</b>	The state of the s	
F7830/AF	4 mm socket	200 cm grey cable		
	1,5 mm DIN SO	CKET	V3FT-C3	
F7830DIN	1,5 mm DIN socket	200 cm grey cable		
	MEDTRONIC			
ref	connection	cable		
F7830/MED	Medtronic type connector	200 cm grey cable	200	
F7832/MED	Medtronic type connector	400 cm grey cable	Buo	
IS-1				
ref	connection	cable		
F7830IS-1	touch-proof 2 mm plug	200 cm cable	100	
			Tus	
F7833IS-1	2 mm plug with protective cap	200 cm cable		
F7833IS-1	2 mm plug with protective cap  DEBELLIS	200 cm cable	AD.	
F7833IS-1		cable	AD.	
	DEBELLIS		AD.	
ref	DEBELLIS connection	cable		
ref F7830W/DEBELLIS	Connection  IS-1 Bl connection	50 cm grey cable 50 cm blue cable		
ref F7830W/DEBELLIS F7830B/DEBELLIS	Connection  IS-1 BI connection  IS-1 BI connection	50 cm grey cable 50 cm blue cable	cable	
F7830W/DEBELLIS F7830B/DEBELLIS	Connection  IS-1 Bl connection  IS-1 Bl connection  MEDTRONIC PROGRAM	cable 50 cm grey cable 50 cm blue cable RAMMER	cable	



F7830S





F7830IS-1



F7830W/DEBELLIS



F7840/MEDT

# **INTRODUCERS**

#### PEEL AWAY INTRODUCERS

FIAB introducer kit with a PTFE Peel away sheet, allows an easy placement of pacing leads and catheters through one of the traditional venous accesses according to Seldinger's method.

STANDARD				
ref	size	guide wire	dilator	
F47505	5 F			
F47506	6 F			
F47507	7 F			
F47508	8 F			
F47509	9 F			
F47609	9,5 F			
F47510	10 F			
F47610	10,5 F	0,038"		
F47511	11 F			
F47512	12 F			
F47513	13 F		17 cm	
F47514	14 F		17 0111	
F47515	15 F			
F47516	16 F			
F47517	17 F			
F47518	18 F			
F47507	7 F			
F47508	8 F	0.005"		
F47509	9 F	0,035"		
F47609	9,5 F			
F47510	10 F			

XL					
ref	size	guide wire	dilator		
F47506XL/23	6 F				
F47507XL/23	7 F				
F47508XL/23	8 F				
F47509XL/23	9 F		23 cm		
F47510XL/23	10 F				
F47511XL/23	11 F				
F47512XL/23	12 F	0,038"			
F47508XL/33	8 F				
F47509XL/33	9 F				
F47510XL/33	10 F				
F47511XL/33	11 F		33 cm		
F47512XL/33	12 F				
F47514XL/33	14 F				





KIT WITH THRESHOLD CABLE					
ref	introducer	threshold cable			
F47507/30	F47507				
F47508/30	F47508	F7830S			
F47509/30	F47509				
F47510/30	F47510				
F47507/33	F47507				
F47508/33	F47508				
F47509/33	F47509	F7833S			
F47609/33	F47609				
F47510/33	F47510				

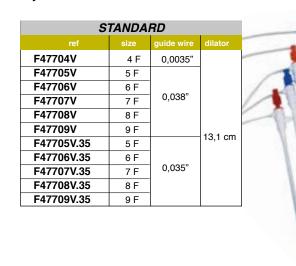
SINGLE INTRODUCERS					
ref	size	dilator			
F47506/S	6 F				
F47507/S	7 F				
F47508/S	8 F	17 cm			
F47509/S	9 F				
F47510/S	10 F				
F47511/S	11 F				

Standard and XL models include:

- Peel away sheet
- Dilator
- Syringe
- 19G needle
- Guide wire

#### HEMOSTASIS VALVE INTRODUCERS

The hemostasis valve introducer kit allows the introduction of pacing leads and catheters in the vascular system. The Hemostatic valve features a reliable hemostatic seal to prevent blood loss and embolism.





Every hemostasis valve introducer includes:

- Hemostasis sheet
- Dilator
- Sideport with 3 ways stopcock
- Guide wire

KII WIIH NEEDLE						
ref	size	guide wire	dilator			
F47704VK	4 F	0,035"	12,6cm			
F47705VK	5 F					
F47706VK	6 F		13,1 cm			
F47707VK	7 F	0,038"				
F47708VK	8 F					
F47709VK	9 F					

KIT WITH NEEDLE AND SYRINGE						
ref	guide wire	dilator				
F47704VSK	4 F	0,035"	12,6cm			
F47705VSK	5 F					
F47706VSK	6 F		13,1 cm			
F47707VSK	7 F	0,038"				
F47708VSK	8 F					
F47709VSK	9 F					

# TRANSESOPHAGEAL RECORDING AND PACING

## **PROBES**

FIAB is leader manufacturer of transesophageal cardiac pacing and recording devices.

The line includes several models of esophageal probes allowing for the atrial pacing and recording.

Thanks to the great multi-year experience,

FIAB esophageal porbes are setting the standard for reliability and performance.

Every probe is equipped with 2 mm touch proof plugs and atraumatic silicone tip, available in different material, number of poles and electrode spacing. An esophageal asyncronous external pacer and a recording filter allow to pace and record the P wave easily at the bed of patient.



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# ESOKID S

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TECHNICAL FEATURES							
	ESOKID 2S ESOKID 4S						
REF	25125ES	25145ES					
N° POLES	2 4						
ELECTRODE MATERIAL		STAINLESS STEEL					
BODY MATERIAL	medica	medical grade POLYURETHANE					
BODY DIAMETER	2,	2,0 mm - 6 French					
INTER ELECTRODES DISTANCE	20 mm 10/10/10 mm						
CONNECTORS	touc	touch proof 2 mm plug					

# ESOFLEX S

Olive shaped electrodes and depth markers

TECHNICAL FEATURES							
	ESOFLEX 2S	ESOFLEX 3S	ESOFLEX 4S	ESOFLEX 4NS	ESOFLEX 5S	<b>ESOFLEX 6S</b>	ESOFLEX 10S
REF	25125S	25135S	25145S	25145NS	25155S	25165S	25105S
N° POLES	2	3	4	4	5	6	10
<b>ELECTRODE MATE</b>	RIAL			STAINLESS STEEL			
<b>BODY MATERIAL</b>	DY MATERIAL medical grade POLYURETHANE						
BODY DIAMETER	2,3 mm - 7 French						
INTER ELECTRODE	30mm	30/15mm	30/15/15mm	15/15/15mm	20/15÷15 mm	20/15÷15mm	20/10÷10mm
DISTANCE	3011111	307 1311111	307 137 1311111	137 137 13111111	207 13 113 11111	207 137 1311111	207 101 10111111
CONNECTORS	CONNECTORS touch proof 2 mm plug						
STYLETS			2 style	ts: Ø 0,35 mm - 0	,40 mm		

# ESOSOFT S Silicone body

Sittedite weary				The state of the s	The second second
		TECHNICAL F	EATURES		
	ESOSOFT 2S	ESOSOFT 3S	ESOSOFT 4S	ESOSOFT 5S	<b>ESOSOFT 6S</b>
REF	<b>3</b> 5125S	35135S	35145S	35155S	35165S
N° POLES	2	3	4	5	6
ELECTRODE MATERIAL			STAINLESS STEEL		
BODY MATERIAL		medical grade SII	ICONE - Internal quad	rifilar coil MP35N	
BODY DIAMETER	3,0 mm - 9 French				
INTER ELECTRODES DISTANCE	30 mm	30/15 mm	30/15/15 mm	20/15÷15 mm	20/15÷15 mm
CONNECTORS			touch proof 2 mm plug		
STYLETS		2 sty	lets: Ø 0,35 mm - 0,40	) mm	

# ESOGOLD S

Olive shaped gold plated electrodes and depth markers

TECHNICAL FEATURES						
	TECHNICAE I EATORES					
	ESOGOLD 2S	ESOGOLD 3S	ESOGOLD 4S	ESOGOLD 5S	ESOGOLD 6S	
REF	27125S	27135S	27145S	27155S	27165S	
N° POLES	2	3	4	5	6	
ELECTRODE MATERIAL	GOLD PLATED BRASS					
BODY MATERIAL	medical grade POLYURETHANE					
BODY DIAMETER	2,3 mm - 7 French					
INTER ELECTRODES DISTANCE	30 mm	30/15 mm	30/15/15 mm	20/15 ÷ 15 mm	20/15 ÷ 15 mm	
CONNECTORS	touch proof 2 mm plug					
STYLETS		2 sty	rlets: Ø 0,35 mm - 0,40	) mm		

# **ESOLO**

Olive shaped electrodes

TECHNICAL FEATURES						
	ESOLO 2	ESOLO 4	ESOLO 6			
REF	25125LO	25145LO	25165LO			
N° POLES	2	4	6			
ELECTRODE MATERIAL	STAINLESS STEEL					
BODY MATERIAL	medical grade POLYURETHANE					
BODY DIAMETER	2,3 mm - 7 French					
INTER ELECTRODES DISTANCE	30mm	30/15/15mm	20/15÷15 mm			
CONNECTORS	touch proof gold plated 2 mm plug					
STYLETS	1 stylet: Ø 0,35 mm					



### **CONNECTING CABLES**

ref	pole	cable length	connection
F5406/4TPS	4	150 cm	touch proof
F5406/6TPS	6	150 cm	touch proof
F5401TPS	10	150 cm	touch proof

### **STIMULATOR**



### **ECG RECORDING FILTER**





