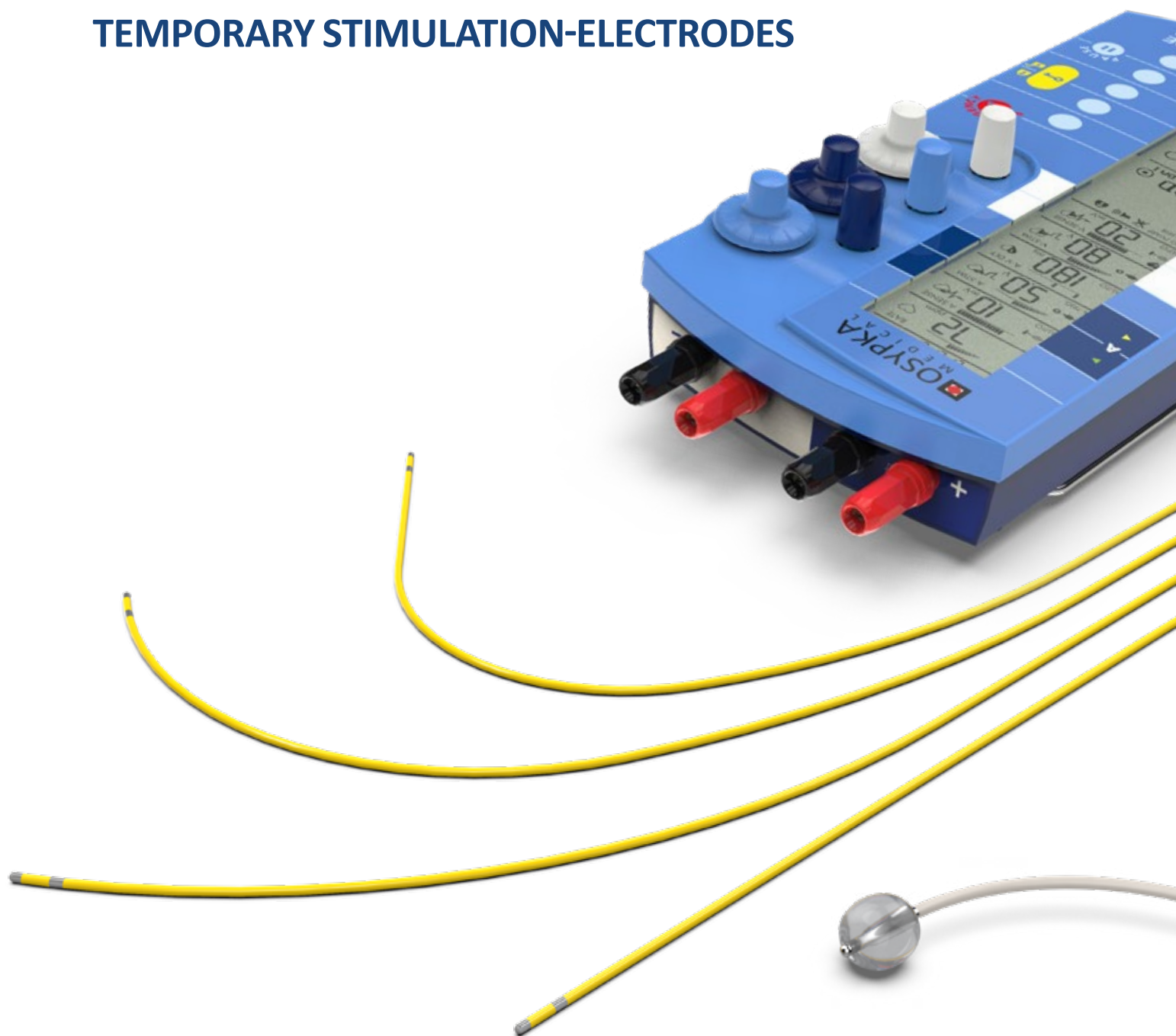


# SPIKE™ & SPIKE FLOW™

TEMPORARY STIMULATION-ELECTRODES



# Temporary Stimulation-Electrodes

## SPIKE™

Stimulation-electrodes for temporary stimulation of the ventricle or the atrium. Based on the application of external pacemakers suitable for emergency, pre- and postoperative stimulation as well as for rapid-pacing during TAVI procedures.

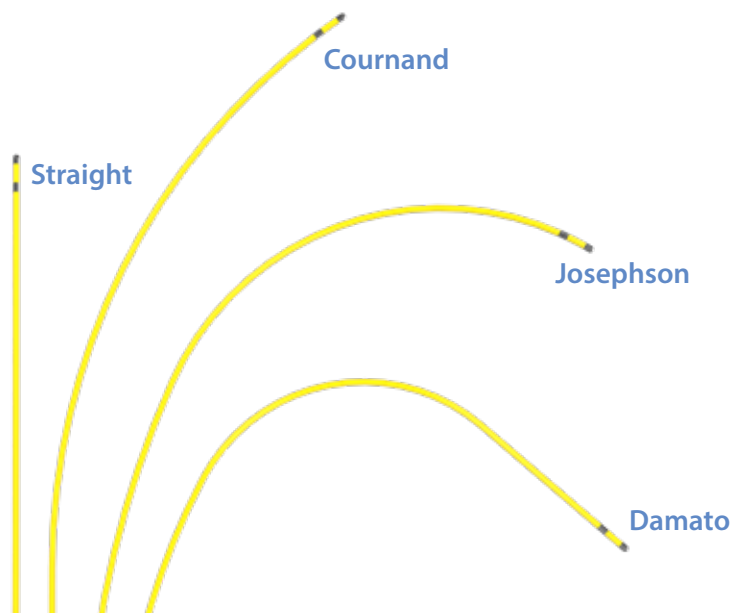
**The SPIKE portfolio includes the SPIKE LCS and SPIKE LCN series.**

The **SPIKE LCS** series is always equipped with shrouded gold plated 2 mm adapter pins, whereby the different French sizes are available in only one length. SPIKE LCS are provided as bipolar or quadripolar catheters.

The **SPIKE LCN** series always have a gold plated open 2 mm pin with protective cap. All French Sizes are available in all length, however only as bipolar catheters.

## Curves

Four different curvatures of the SPIKE LCS and SPIKE LCN catheter series are available, Straight, Cournand, Josephson and Damato.



## Connectors

**SPIKE LCS** are equipped with shrouded 2 mm pins, **SPIKE LCN** with open 2 mm pins with protective cap.



shrouded 2 mm pins  
(SPIKE LCS)



open 2 mm pins with  
protective cap (SPIKE LCN)

## SPIKE LCS

### Characteristics SPIKE LCS

Number of Poles	Bipolar or quadripolar
Curve	Straight, Courmand, Josephson, Damato
Inter-electrode distance	Bipolar: 2 mm, 5 mm or 10 mm Quadripolar: 2 mm, 5 mm, 10 mm or 2-5-2 mm
French-Size/ Length	4F/90 cm, 5F/125 cm oder 6F/125 cm
Adapter Type	Shrouded gold plated 2 mm pins

Packaging unit: 5 pieces

#### Product Code SPIKE LCS:

5

S

Number of Poles:  
2 = bipolar  
4 = quadripolar

Curve:  
1 = Straight  
2 = Courmand  
3 = Josephson  
4 = Damato

Inter-electrode distance:  
0 = 10 mm  
2 = 2 mm  
5 = 2-5-2 mm\*  
6 = 5 mm

French/Length:  
4 = 4F/90 cm  
5 = 5F/125 cm  
6 = 6F/125 cm

\* = only quadripolar catheter

Example: 52165S – bipolar, curvature Straight, inter-electrode distance 5 mm, size 5F, length 125 cm, shrouded pins

## SPIKE LCN

### Characteristics SPIKE LCN

Number of Poles	Bipolar
Curve	Straight, Courmand, Josephson, Damato
Inter-electrode distance	2 mm, 5 mm or 10 mm
French-Size	4F, 5F or 6F
Length	60 cm, 80 cm, 90 cm or 125 cm
Adapter Type	Open gold plated 2 mm pins with protective cap

Packaging unit: 5 pieces

#### Product Code SPIKE LCN:

5

2

N

Curve:  
1 = Straight  
2 = Courmand  
3 = Josephson  
4 = Damato

Inter-electrode distance:  
0 = 10 mm  
2 = 2 mm  
6 = 5 mm

French:  
4 = 4F  
5 = 5F  
6 = 6F

Length:  
6 = 60 cm  
8 = 80 cm  
9 = 90 cm  
0 = 125 cm

Example: 52305N9 – bipolar, curvature Josephson, inter-electrode distance 10 mm, size 5F, length 90 cm, open pins

# Temporary Stimulation-Electrodes with Balloon

## SPIKE FLOW™

Stimulation-electrode with balloon for temporary stimulation of the ventricle. The cardiac floating catheter **SPIKE FLOW** is applicable pre- or postoperatively or can be used for emergency stimulation as well as for rapid-pacing during TAVI procedures. In addition, **SPIKE FLOW** is suitable for recording intracardiac signals.

### Characteristics SPIKE FLOW

Number of Poles	Bipolar
Inter-electrode distance	10 mm
French-Size	5F
Length	110 cm
Balloon diameter	9 mm
Balloon volume	1,0 cc
Balloon material	Latex/natural rubber
Adapter	Shrouded 2 mm pins
Recommended introduces size	6F

Packaging unit: 5 pieces

Product Code SPIKE FLOW:



## EasyStim™ – Accessories Temporary Stimulation-Electrodes

**EasyStim** adapter for connecting touch proofed 2 mm pins (e.g. catheter) to collets, which allow to connect naked 2 mm pins only. Double (red and black), sterile or non-sterile packed.

Packaging unit: 20 double packs



Product Code  
EasyStim sterile:

EasyStim.S

Product Code  
EasyStim non-sterile:

EasyStim

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