

✓ Corkscrew Needle Electrodes

✓ · Our corkscrew needle electrodes provide excellent signal recording and effective stimulation on the patient.

· Double sharpening for non-traumatic insertion.

· Available with recognition hub and cable in 6 different colors.

	Code		Cable Length
	MNCS0610DS		100 cm
p.d.1.1	MNCS0615DS	✓	150 cm
p.d.1.2	MNCS0625DS	✓	250 cm

 Touch Proof Ø 1,5 mm DIN 42802

p.d.1.1

1. Vienkartinis, sterilus, sraigtinis;
2. Elektrodo dydis: standartinis;
3. Laido ilgis 150 cm.
4. Jungtis Touch Proof, diametras 1,5 mm, vyriška;
(Firmos „Spes Medica“ elektrodas, kataloginis kodas MNCS0615DS)

p.d.1.2.

1. Vienkartinis, sterilus, sraigtinis;
2. Elektrodo dydis: standartinis;
3. Laido ilgis 250 cm.
4. Jungtis Touch Proof, diametras 1,5 mm, vyriška;
(Firmos „Spes Medica“ elektrodas, kataloginis kodas MNCS0625DS)

V Twisted Subdermal Needle Electrodes

· Our hook needle electrodes provide excellent signal recording and effective stimulation on the patient.

Code	Needle length	Needle Diameter	Cable Length
MN4013D10A/S	13 mm	0,40 mm	2 x 100 cm
MN4013D10B/S	13 mm	0,40 mm	2 x 100 cm
p.d.1.3 MN4013D15A/S	v 13 mm	v 0,40 mm	v 2 x 150 cm
MN4013D15B/S	13 mm	0,40 mm	2 x 150 cm
MN4013D20A/S	13 mm	0,40 mm	2 x 200cm
p.d.1.4 MN4013D25A/S	v 13 mm	v 0,40 mm	v 2 x 250 cm
MN4013D25B/S	13 mm	0,40 mm	2 x 250 cm
MN4018D10A/S	18 mm	0,40 mm	2 x 100 cm
p.d.1.5 MN4018D15A/S	v 18 mm	v 0,40 mm	v 2 x 150 cm
p.d.1.6 MN4018D25A/S	v 18 mm	v 0,40 mm	v 2 x 250cm

p.d.1.3.

1. Vienkartinis, sterilus, adatinis elektrodo supintais laidais po 2;
2. Elektrodo dydis: adatos ilgis 13 mm, diametras 0,40 mm (27G)
3. Laido ilgis 150 cm.
4. Jungtis Touch Proof, diametras 1,5 mm, vyriška;

p.d.1.4.

1. Vienkartinis, sterilus, adatinis elektrodo supintais laidais po 2;
2. Elektrodo dydis: adatos ilgis 13 mm, diametras 0,40 mm (27G)
3. Laido ilgis 250 cm.
4. Jungtis Touch Proof, diametras 1,5 mm, vyriška

p.d.1.5.

1. Vienkartinis, sterilus, adatinis elektrodo supintais laidais po 2;
2. Elektrodo dydis: adatos ilgis 18 mm, diametras 0,40 mm (27G)
3. Laido ilgis 250 cm.
4. Jungtis Touch Proof, diametras 1,5 mm, vyriška;

p.d.1.6.

1. Vienkartinis, sterilus, adatinis elektrodo supintais laidais po 2;
2. Elektrodo dydis: adatos ilgis 18 mm, diametras 0,40 mm (27G)
3. Laido ilgis 150 cm.
4. Jungtis Touch Proof, diametras 1,5 mm, vyriška;



TWISTED SUBDERMAL NEEDLE ELECTRODE



p.d.1.3 ir 1.4 ir 1.5 ir 1.6



Description

Disposable twisted monopolar subdermal needles. Available in set of 2, 3, 5 and 10 twisted needles. The twisted needle electrodes are easy to recognize thank to the color coding of the lead wire.

- Special sharpening for a painless and atraumatic needle insertion;
- 100% quality control of the product;
- Very thin shrinking tube as alternative to the needles with moulded hub;
- Pair of two needles twisted with cables and different combinations of colors.

UMDNS 11441

Materials

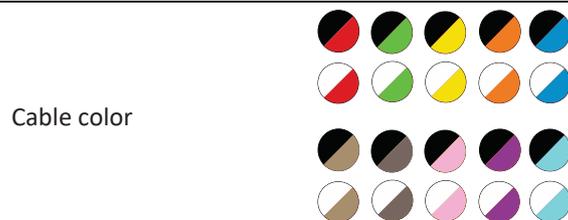
Needle	Stainless Steel
Needle handgrip	PVDF
Lead wire	Cu/Sn with PVC jacket
Connector	CuZn with PVC jacket
Packaging	Medical paper/PET-PE

Safety

Biocompatibility (UNI EN ISO 10993)	Yes
Sterilization method	Ethylene oxide (EtO) v
Latex	No
Phthalates	No

Specifications

Generic codes	MNXXXXXXXXXX TTXXMNXXXXD
Needle diameter	0,20 - 0,40 mm
Needle length	From 8 to 22 mm
Cable length	From 100 to 250 cm v



Connector	v Touch Proof 1,5 mm DIN 42802
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Environment

RoHS II	✓
REACH	✓

Neurodart - Subdermal Needle Electrodes

- Guarantee excellent signal stability and easy non-traumatic insertion.
- Provide excellent recording and effective patient stimulation.

Code	Needle Length	Needle Diameter	Cable Length
MN4013D10S	13 mm	0,40 mm	100 cm
MN4013D10B	13 mm	0,40 mm	100 cm
MN4013D15S	13 mm	0,40 mm	150 cm
MN4013D15B	v 13 mm	v 0,40 mm	v 150 cm
MN4013D25S	13 mm	0,40 mm	250 cm
MN4013D25B	13 mm	0,40 mm	250 cm
MN4018D10S	18 mm	0,40 mm	100 cm
MN4018D15S	18 mm	0,40 mm	150 cm
MN4018D25S	v 18 mm	v 0,40 mm	v 250 cm
MN4022D10S	22 mm	0,40 mm	100 cm
MN4022D15S	22 mm	0,40 mm	150 cm
MN4022D25S	22 mm	0,40 mm	250 cm



Touch Proof Ø 1,5 mm DIN 42802 v

MRI (Magnetic Resonance Imaging) compatible version available on request

Item available in two different color sets (Rif. code): S      B      

Data sheet

p.d.1.7.

1. Vienkartinis, sterilus, adatinis elektrodas;
2. Elektrodo dydis: adatos ilgis 13 mm, diametras 0,40 mm (27G)
3. Laido ilgis 150 cm.
4. Jungtis Touch Proof, diametras 1,5 mm, vyriška;

p.d.1.8.

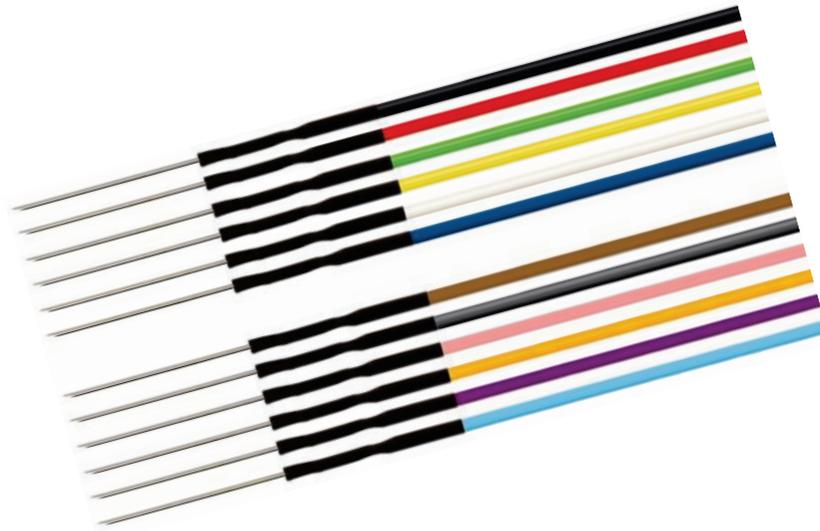
1. Vienkartinis, sterilus, adatinis elektrodas;
2. Elektrodo dydis: adatos ilgis 18 mm, diametras 0,40 mm (27G)
3. Laido ilgis 250 cm.
4. Jungtis Touch Proof, diametras 1,5 mm, vyriška



NEURODART: DISPOSABLE NEEDLE ELECTRODES



p.d.1.7 ir 1.8



Description

The subdermal needle electrode material is biocompatible stainless steel: the best compromise between clear recording with low noise and cost effective.

A variety of needle lengths and types, and several lead wire lengths is available.

Our needle electrodes provide excellent recording and effective patient stimulation and guarantee excellent signal stability and non-traumatic insertion.

- Made of high-tensile strength stainless steel;
- For stimulating and recording;
- High clear recording due to the low impedance of contact;

UMDNS 11440

Materials

Needle	Stainless Steel
Needle holder	PVDF
Needle cover	PVC
Lead wire	Cu/Sn with PVC jacket
Connector	CuZn/Au with PVC jacket
Packaging	Medical paper/PET

Safety

Biocompatibility (UNI EN ISO 10993)	Yes
Sterilization method	Ethylene oxyde (EtO) V
Latex	No
Phthalates	No

Specifications

Generic code	MNXXXXXXXX
Needle diameter	0,20 - 0,40 mm V
Needle length	10 – 22 mm V
Cable length	From 0 to 250 cm V
Cable colour	
Connector	V Touch Proof 1,5 mm DIN 42802 Pin 1 mm Touch Proof 0,7 mm

Environment

RoHS II	✓
REACH	✓

Hook Electrodes

p.d.1.9.

High amplitude, rich morphology EMG activity can be found at the source muscle. Reach and record it with HOOKs.

- Using paired needle electrodes long enough to reach the generator muscle allows recording robust, high amplitude EMG at the source.
- Needle electrodes insulated except for the tip minimize unwanted recording of other muscles or physiologic generators
- Available in different inclinations to allow optimal positioning of the needle.
- Available with hubbed version with 2,5 - 5 and 10mm distance or split version
- Colour coding hub and leadwire for an easy identification

Code	Needle Length	Needle Diameter	Inclination	Electrode Distance
TFDN351331	v 13 mm 	0,35 mm	30°	v 2,5 mm
TFDN351341	13 mm 	0,35 mm	90°	2,5 mm
TFDN451831	18 mm 	0,45 mm	30°	5 mm
TFDN451841	18 mm 	0,45 mm	90°	5 mm
TFDN452531	25 mm 	0,45 mm	30°	5 mm
TFDN452541	25 mm 	0,45 mm	90°	5 mm
TFDN453731	37 mm 	0,45 mm	30°	10 mm
TFDN453741	37 mm 	0,45 mm	90°	10 mm
TFDN455031	50 mm 	0,45 mm	30°	10 mm
TFDN455041	50 mm 	0,45 mm	90°	10 mm

p.d.1.9.

1. Vienkartinis, sterilus, porinis;
2. Elektrodo dydis: adatos ilgis 13 mm, atstumas tarp adatų 2,5 mm.
3. Laido ilgis 150 cm.
4. Jungtis Touch Proof, diametras 1,5 mm, vyriška;



HOOK WIRE ELECTRODE



Description

Spes Medica presents a wire electrode, monopolar or bipolar, for EMG.

The special recording wire has a minimal diameter for the best comfort of the patient, for this reason the product is particularly suitable for dynamic EMG analysis.

An ultra-sharpened thin insertion needle is used to minimize the pain of the patient.

The recording wire is characterized by a very small diameter and this is what ensures an optimal comfort for the patient.

The last part of the wire is hooked and this allow the needle to stay in the right position.

UMDNS 11441

Materials

Needle canula	Stainless Steel
Sensor	Stainless Steel / Ag
Sensor insulation	PTFE
Needle hub	Pe/Al
Needle cover	PE
Packaging	Medical paper/PET-PE

Safety

Biocompatibility <i>(UNI EN ISO 10993)</i>	Yes
Sterilization method	Ethylene oxide (EtO) v
Latex	No
Phthalates	No

Specifications

Generic code	DIMWXXXXXXXXXX
Wires	1 - 2
Needle diameter	0,50 (25G) mm
Needle length	30, 50 mm
Sensor diameter	0,11 mm
Recording area	0,002 mm ²

Directly on the wire,
Pin 1 mm

Connection cable:

UMDNS 16134



Connection	Lead wire	Cu/Sn with PVC jacket
	Connector	Cu/Au with PE jacket
	Generic code	BECXXXXXXXXX, 100XXXXXXXXX, MNCXXXXXXXXX
	Connector	Touch Proof 1,5 mm DIN 42802, 5 pole DIN 45322
	Cable length	100 cm

Environment

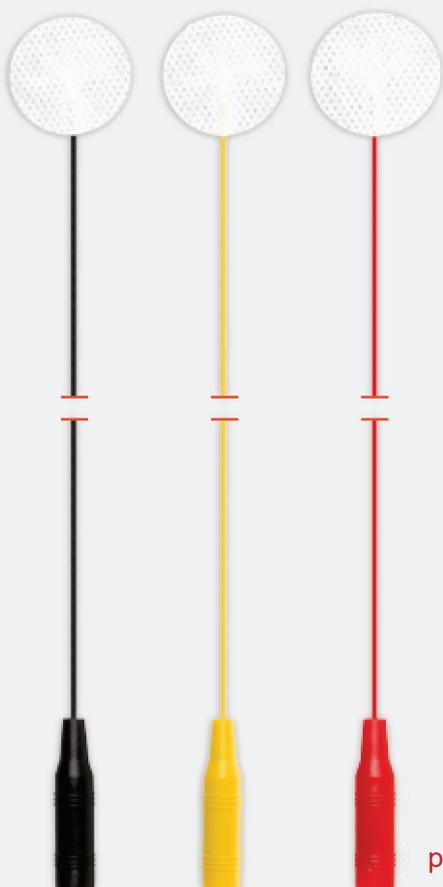
RoHS II	✓
REACH	✓



V Disposable Electrodes / ECG

p.d.2.1

1. Vienkartinis, lipnus, su laidu;
2. Elektrodo dydis: Ø 20 mm
3. Laido ilgis 0,9 m.
4. Jungtis Touch Proof, diametras 1,5 mm;



p.d.2.1

1. Vienkartinis, lipnus elektrodas;
2. Elektrodo dydis: Ø 24 mm

p.d.2.2



V Adhesive Electrodes

- Excellent recording performance of the ECG signal.
- Hydrogel ensures excellent and constant adhesion to the patients skin.
- The electrode can be repositioned many times without reducing its adhesion.
- Hydrogel is very gentle so it can be applied on every type of skin, even the most sensitive ones.

Code	Electrode Diameter	Cable Length	Connectors	Box
CDE02410F4	24 mm	10 cm	4 mm pin	3 pcs per pack 120 pcs per box
CDE03010F4	20 mm	10 cm	4 mm pin	3 pcs per pack 120 pcs per box
CDE02435F4	24 mm	35 cm	4 mm pin	3 pcs per pack 120 pcs per box
CDE03035F4	20 mm	35 cm	4 mm pin	3 pcs per pack 120 pcs per box
CDE0246026	24 mm	60 cm	Ø 1,5 mm	3 pcs per pack 120 pcs per box
CDE02460F4	24 mm	60 cm	4 mm pin	3 pcs per pack 120 pcs per box
CDE0249026	24 mm	90 cm	Ø 1,5 mm	3 pcs per pack 120 pcs per box
CDE0206026	20 mm	60 cm	Ø 1,5 mm	3 pcs per pack 120 pcs per box
CDE03060F4	20 mm	60 cm	4 mm pin	3 pcs per pack 120 pcs per box
CDE0209026	V 20 mm	V 90 cm	V Ø 1,5 mm	3 pcs per pack 120 pcs per box
CDER246026	24 mm Radiolucent	60 cm	Ø 1,5 mm	3 pcs per pack 120 pcs per box
CDER249026	24 mm Radiolucent	90 cm	Ø 1,5 mm	3 pcs per pack 120 pcs per box
CDER2460F4	24 mm Radiolucent	60 cm	4 mm pin	3 pcs per pack 120 pcs per box
CDES000024	V 24 mm	/	Snap	25 pcs per pack 500 pcs per box

Code	Size	Connectors	Box
TABSMPO00025	14x34 mm	Tab	100 pcs per pack 2500 pcs per box
TABSMO000025	22x34 mm	Tab	100 pcs per pack 2500 pcs per box



MONOPOLAR CABLES

p.d.2.3



Description

Our connection cables have been designed to minimize the noise during the connection to the electrode equipment. The cable is made by silver with Kevlar ensuring the maximum conduction and a high tensile strength. The cable-connector connection is moulded to avoid the oxidation and any risk of breaking

UMDNS 16312

Materials

Lead wire Cu/ Ag with PVC jacket

Connector CuZn/Au with PE jacket

Safety

Biocompatibility
(UNI EN ISO 10993) Yes

Latex No

Phthalates No

Specifications

Generic code ✓ LEADXXXXXXXX
MNCXXXXXXXX

Electrode side Snap
Spring Snap
0,7 – 1 mm Pin
1,5 mm Touch Proof

Headbox side ✓ 1,5 mm Touch Proof DIN 42802

Cable length From 50 to 250 cm

Cable colour ● ● ● ● ○ ●
● ● ● ● ● ●

Environment

RoHS II ✓

REACH ✓

✓ Monopolar Cables p.d.2.3

· Monopolar cables are suitable for connecting electrodes to the various devices currently on the market.

Code	Electrode Side	Cable Length	Pack
MNC10PDINS	1 mm Socket	100 cm	10 pcs
MNC10DDINS	1,5 mm Touch Proof Pin	100 cm	10 pcs
MNC10MEDDINS	0,7 mm Socket	100 cm	10 pcs

✓

LEAD1026S0	Snap	✓ 100 cm	10 pcs	p.d.2.3
LEAD1526S0	Snap	150 cm	10 pcs	
LEAD2526S0	Snap	250 cm	10 pcs	

✓ Touch Proof Ø 1,5 mm DIN 42802 other side

NEURO TOOLS

SURGICAL STIMULATION PROBES

Spes Medica offers a **complete range** of disposable IOM stimulation probes:

Laido ilgis 250cm

- Flexible disposable 250 cm leadwire with touch proof connectors
- Overmoulded handgrip to give the best stability and performance
- The electrode is made with top quality medical grade stainless steel
- Double sterile pouches for optimum safety
- 5 year expiration date
- Universal Compatibility with all nerve monitoring systems
- Class III certified

Take a look of our standard range of probes. Spes Medica is also able to manufacture **specific designs** based on the customer requirements.



IOM

MONO POLAR

p.d.3.1 stimulatorius

1. Vienkartinis, sterilus, monopoliarinis stimulatorius - tiesioginei nervo stimuliacijai;
2. Elektrodo dydis: diametras 1,2 mm, stimulatorius tiesus, ilgis 100 mm;
3. Laido ilgis 250 cm
4. Jungtis Touch Proof, diametras 1,5 mm.

STANDARD TIP

Monopolar stimulation probes are used to **identify the nerve by direct nerve stimulation**. They may be used to stimulate when **a large signal spread is required**.

A Disposable Subdermal Needle Electrode or a Disposable Adhesive Surface Electrode is needed as a reference.

With a **mapping function**, they may be used during **skull base surgery, acoustic neuroma surgery, parotidectomy and parathyroidectomy**.

MONOPOLAR



PERFECTLY ISOLATED SHAFT TO ENSURE A **PRECISE** STIMULATION POINT



ATRAUMATIC SMOOTH TIP TO AVOID ANY INJURY



SI1100**45**S2526D



SI110**100**S2526D



SI110**200**S2526D



SI11C**095**S2526D



SI11B**130**S2526D



MONO POLAR

BALL TIP_v

Monopolar ball tip stimulation probes are designed to be used in **Spine Fusions and Pedicle Screw Integrity Test**.

p.d.3.2

1. Vienkartinis sterilus monopoliarinis stimulatorius apvalia galvute– smegenų žievės stimuliacijai;
2. Elektrodo dydis: diametras 3 mm, stimulatorius tiesus, ilgis 100 mm;
3. Laido ilgis 250 cm
4. Jungtis Touch Proof, diametras 1,5 mm

BALL MONOPOLAR

✓ BALL AVAILABLE IN 2 AND 3 mm

✓ BALL AND SHAFT ARE MADE OF A SINGLE PIECE OF STAINLESS STEEL WITHOUT ANY SOLDERING POINT FOR THE BEST STABILITY AND SAFETY



SI1B0045S2526D



SI1B0100S2526D ✓



p.d.3.2

SI1B0185S2526D



SI1B0130S2526D



NEW

BI POLAR

BALL TIP

Designed for **cortex stimulation**. **V**
Polarity is clearly indicated on the handgrip.

The **color coded** design helps experts during the surgery

BALL BIPOLAR

✓ THE BALL AND THE SHAFT ARE A SINGLE PIECE OF STAINLESS STEEL PERFECTLY TOOLED TO GIVE THE BEST STABILITY AND SAFETY.

✓ THE SHAFT IS FULLY ISOLATED FOR A PRECISE STIMULATION POINT

p.d.3.3.

1. Vienkartinis bipoliarinis stimulatorius apvaliomis galvutėmis – kalbos zonų stimuliacijai;
2. Elektrodo dydis: diametras 2 mm, stimulatorius tiesus, ilgis 30 mm;
3. Laido ilgis 250cm
4. Jungtis Touch Proof, diametras 1.5 mm.

The bendability helps surgeons to **customize probes angle**.
Monopolar version is also available

SI1BF**100**S2526D

Distance between polarities:
9 mm

The ball is available in
2 mm diameter **V**

Color coded design

Polarity indicated on the **handgrip**

SI2B00**30**S2526D

SI2BF**100**S2526D

V p.d.3.3

CONCENTRIC BIPOLAR

STANDARD

Concentric probes guarantee the best **stimulation precision**. They are designed to differentiate **cranial nerves** and stimulate within the **internal auditory canal** and **fine fibers of the extra-cranial nerve**. They can also be used in **skull base surgery, parotidectomy, and acoustic neuroma surgery** if nerves are **visible and exposed**.

CONCENTRIC BIPOLAR

- ✓ DESIGNED FOR A CENTRAL AND PERIPHERAL STIMULATION
- ✓ SMOOTH ATRAUMATIC TIP TO AVOID ANY TISSUE INJURY
GUARANTEES A SELECTIVE AND NON TRAUMATIC STIMULATION

p.d.3.4.

- . Vienkartinis sterilus koncentrinis bipolarinis stimulatorius – tiesioginei nervo stimuliacijai;
2. Elektrodo dydis: diametras 2 mm, stimulatorius tiesus, ilgis 100 mm;
3. Laido ilgis 250 cm
4. Jungtis Touch Proof, diametras 1,5 mm.

SI2C0045S2526D



SI2C0100S2526D



SI2T0100S2526D



SI2CC095S2526D



SI2CB130S2526D



The diameter for the standard tip is **1.6 mm**.

V p.d.3.4

CONCENTRIC BIPOLAR

BALL TIP

CONCENTRIC BIPOLAR BALL TIP

- ✓ DESIGNED FOR A CENTRAL AND PERIPHERAL STIMULATION
- ✓ SMOOTH ATRAUMATIC BALL TO AVOID ANY TISSUE INJURY
GUARANTEES A SELECTIVE AND NON TRAUMATIC STIMULATION



The diameter for
the ball tip is;
2 mm

SI2T00**4**S2526D



SI2T0**100**S2526



MINIFORK BIPOLAR

Designed for **nerves and roots stimulation, spinal cord mapping**. They can also be used in **skull base surgery, parotidectomy, and acoustic neuroma surgery** if nerves are visible and **exposed**

MINIFORK BIPOLAR

- ✓ PRECISE AND CONSTANT DISTANCE BETWEEN THE 2 POLARITIES
- ✓ SLIM DESIGN OF SHAFT TO GIVE THE BEST VIEW OF THE OPERATING FIELD
- ✓ SMOOTH ATRAUMATIC TIP TO AVOID ANY TISSUE INJURY



Distance between polarities:
1,5 mm

Tip diameter:
0.65mm

P.D.3.5

V

S12F00**45**S2526D



S12F0**100**S2526D



**OVERMULDED
VERSION**
MORE STABLE
AND BULKY

MINIFORK BIPOLAR

Designed for **nerves and roots stimulation, spinal cord mapping**. They can also be used in **skull base surgery, parotidectomy, and acoustic neuroma surgery** if nerves are visible and **exposed**

MINIFORK BIPOLAR

- ✓ PRECISE AND CONSTANT DISTANCE BETWEEN THE 2 POLARITIES
- ✓ SLIM DESIGN OF SHAFT TO GIVE THE BEST VIEW OF THE OPERATING FIELD
- ✓ SMOOTH ATRAUMATIC TIP TO AVOID ANY TISSUE INJURY
- ✓ **COLOR CODED DESIGN** HELPS EXPERTS DURING THE SURGERY



Distance between polarities:
2 mm

Tip diameter :
0.65mm



SHRINK TUBE VERSION
SLIMMER AND LEANER VERSION. HELP VIEW DURING SURGERY

MINIFORK TRIPOLAR

p.d.3.6.

1. Vienkartinis sterilus bipolarinis stimulatorius "kabliukas" – periferinių nervų ir nervinių šaknelių stimuliacijai
2. Elektrodo dydis: diametras 0,65 mm, stimulatoriaus ilgis 20 mm;
3. Laido ilgis 250 cm
4. Jungtis Touch Proof, diametras 1,5 mm

Distance
between
polarities:
1 mm

Tip diameter:
0.65mm

Distance
between
polarities
1,5 mm

Tip diameter:
0.65mm

IF THE **MINIFORK TRIPOLAR 90°** IS USED IN COMBINATION WITH **THE TRIPOLAR MINIFORK**, IT CAN REPLACE THE HOOK PROBE IN CHILD SURGERY

SI3FC0**9**SS2526D

SI3FE0**9**SS2526D



HOOK

BIPOLAR AND TRIPOLAR

Designed for the **peripheral nerves**, and the **brachial plexus**.

They are used together: the **tripolar** for **stimulation**, the **bipolar** for **recording**

HOOK BIPOLAR AND TRIPOLAR

- ✓ **COLOR CODING** TO HELP SURGEONS
- ✓ **CLEAR INDICATION OF THE POLARITY** IN THE HANDLE
- ✓ **NEW ANGLE MORE OPEN** FOR AN EASY USE, TO HOOK NERVES
- ✓ **AVAILABLE IN BIPOLAR AND TRIPOLAR VERSION** TO **REDUCE SHOCK ARTIFACT**
- ✓ **FULLY ISOLATED TIP** UP TO THE HOOK

p.d.3.6.

1. Vienkartinis sterilus bipoliarinis stimulatorius "kablukas" – periferinių nervų ir nervinių šaknelių stimuliacijai;
2. Elektrodo dydis: diametras 0,65 mm, stimulatoriaus ilgis 20 mm;
3. Laido ilgis 250 cm
4. Jungtis Touch Proof, diametras 1,5 mm

p.d.3.7.

1. Vienkartinis sterilus bipoliarinis stimulatorius "trigubas kablukas" – periferinių nervų ir nervinių šaknelių stimuliacijai;
2. Elektrodo dydis: diametras 0,65 mm, stimulatoriaus ilgis 20 mm;
3. Laido ilgis 250 cm
4. Jungtis Touch Proof, diametras 1,5 mm.

Distance between polarities:
4.5 mm

Tip Diameter:
0.65mm ✓



Distance between polarities:
9 mm

Tip diameter:
0.65mm ✓

p.d.3.6

SI2H0020S2526D



p.d.3.7

SI3H0020S2526D



FLUSHTIP MONOPOLAR

Designed for the safety of the cranial nerves especially the **facial nerve**. This stimulation probe may be used during skull base surgery, acoustic neuroma surgery, parotidectomy and parathyroidectomy, when **nerves are not exposed**

p.d.3,9

1. Vienkartinis sterilus stimulatorius lankstoma galvute;
2. Elektrodo dydis: diametras 0,5 mm, stimulatoriaus ilgis 95 mm;
3. Laido ilgis 250 cm
4. Jungtis Touch Proof, diametras 1,5 mm

FLUSHTIP MONOPOLAR

- ✓ THE TIP CAN BE MOLDED AS NEEDED
- ✓ FLEXIBLE SHAFT KEEPS THE SHAPE YOU NEED TO **REACH ANY CAVITY OR SMALL POTS**
- ✓ CONICAL ELECTRODE WITH SMOOTH ATRAUMATIC TIP TO AVOID ANY TISSUE INJURY
- ✓ PERFECT FLEXIBLE ISOLATION OF THE SHAFT FOR A PRECISE STIMULATION POINT



Tip diameter:
0.5mm

SI3FC0**95**SS2526D



RHIZO

p.d.3.8

1. Vienkartinis, sterilus, monopoliarinis, rizotomijai skirtas stimuliatorių rinkinys;
2. Elektrodo dydis: galiuko ilgis 3 mm ir 5 mm, stimulatoriaus ilgis 100 mm;
3. Laido ilgis 250 cm
4. Jungtis Touch Proof, diametras 1,5 mm.

Designed for peripheral nerves stimulation, especially during **Selective Dorsal Rhizotomy procedure**. Rhizo are designed to manipulate and divide rootlets and simultaneously stimulate, **reducing the surgeon's consistent need to swap between tools**.

RHIZO SET

- ✓ COLOUR CODED HANDGRIP FOR AN EASY IDENTIFICATION AND CONNECTION
- ✓ SHAFT ISOLATED TILL THE BENDING OF THE ELECTRODE
- ✓ AVAILABLE IN 2 VERSIONS: **BALL AND STANDARD TIP**, WITH 2 DIFFERENT LENGTHS

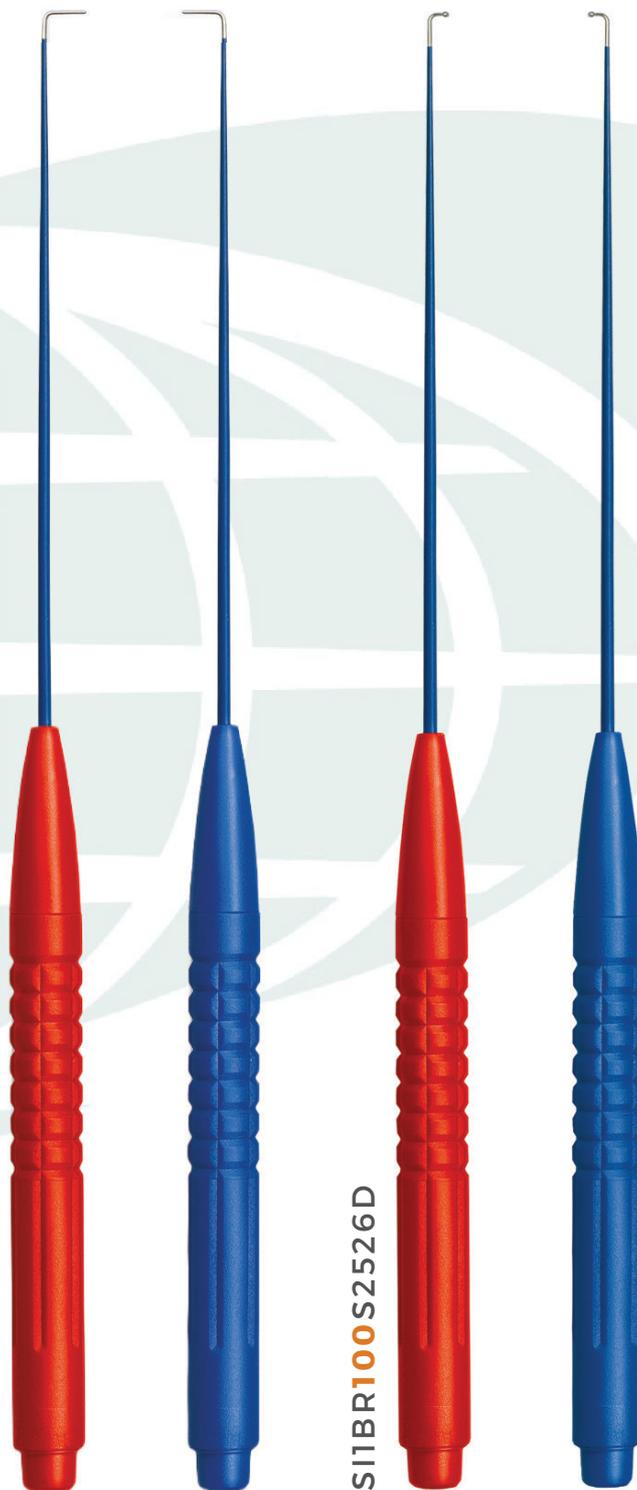
5 mm tip length

3 mm tip length

SI1IR100S2526D



SI1BR100S2526D



DRY TOUCH

Designed to guarantee a **dry stimulation field**.

At the same time it can be used for **cortical and subcortical stimulation** in brain tumor surgery **to protect piramidal tracts**. The double function reduces the surgeon's need to swap between tools.

Various tube lengths and different diameter are ideal for a variety of procedures including, **Brain Mapping, Spine Procedures, and Transoral Thyroidectomy**

DRY TOUCH MONOPOLAR

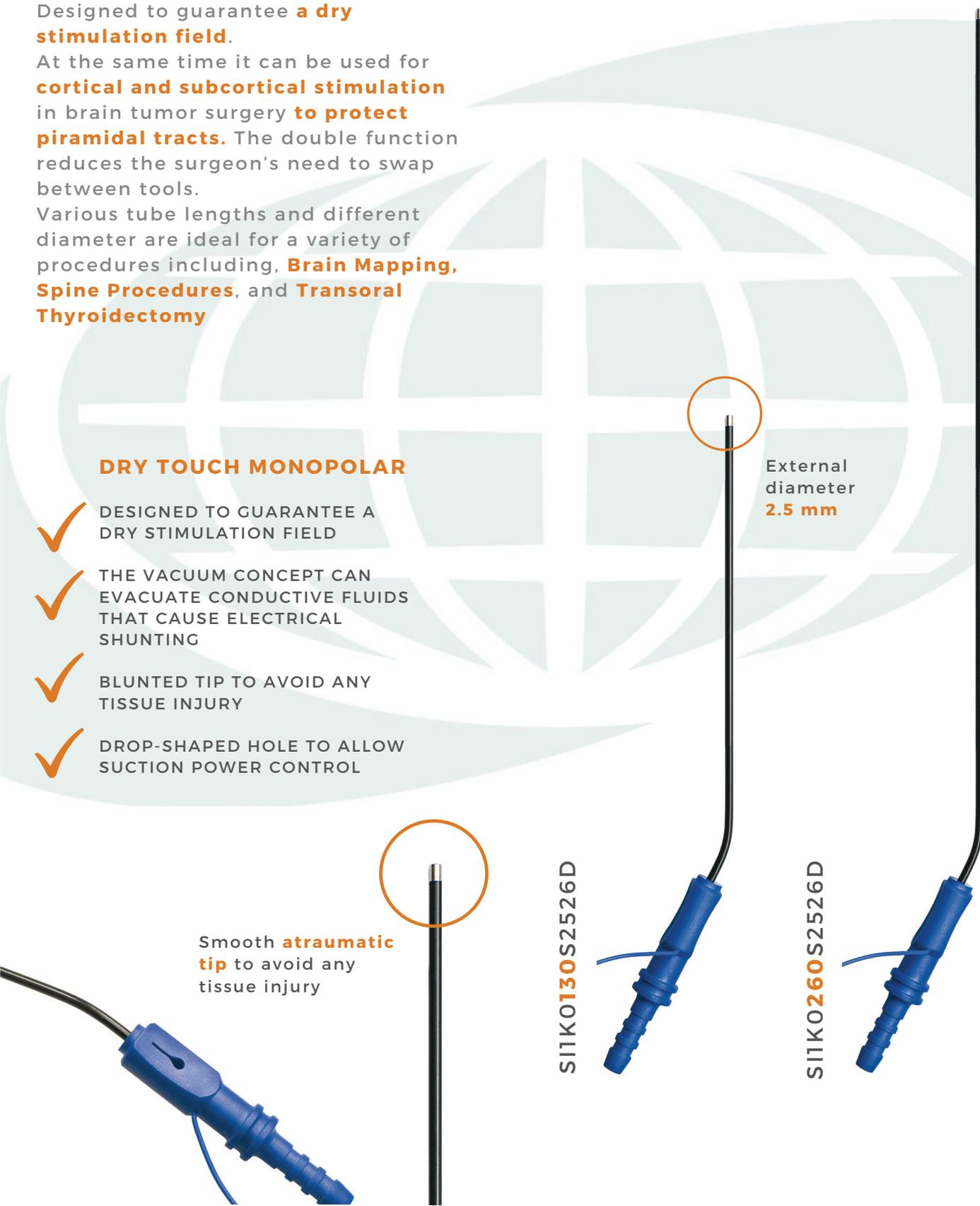
- ✓ DESIGNED TO GUARANTEE A DRY STIMULATION FIELD
- ✓ THE VACUUM CONCEPT CAN EVACUATE CONDUCTIVE FLUIDS THAT CAUSE ELECTRICAL SHUNTING
- ✓ BLUNTED TIP TO AVOID ANY TISSUE INJURY
- ✓ DROP-SHAPED HOLE TO ALLOW SUCTION POWER CONTROL

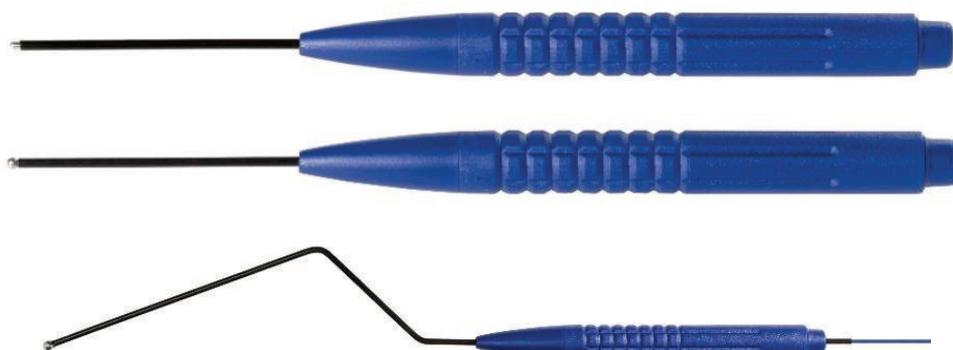
External diameter **2.5 mm**

Smooth **atraumatic tip** to avoid any tissue injury

S11K0130S2526D

S11K0260S2526D





Description

Monopolar stimulation probes have an active electrode to ensure a precise stimulation. The probes need a reference electrode. This reference electrode is placed outside the stimulation area.

The tip is perfectly blunted to avoid any tissue injury and the shaft is fully isolated for a precise stimulation point.

In the ball version, the ball and the shaft are a single piece of stainless steel perfectly tooled to give the best stability and safety.

The ball is available in 2mm and 3 mm diameter.

- Light and ergonomic handgrip;
- Safety connector 1,5 mm DIN 42802.

UMDNS 11453

Materiali

Electrode	Stainless Steel
Electrode insulation	PVDF
Handgrip	PS
Lead wire	Cu/Sn with PVC jacket
Connector	CuZn with PVC jacket
Packaging	Medical paper/PET-PE

Salute

Biocompatibility (UNI EN ISO 10993)	Yes
Sterilization method	Ethylene oxide (EtO)
Latex	No
Phthalates	No

Specifiche prodotto

Generic code	V SI11XXXXXXXXXD SI1BXXXXXXXXXD
Probe diameter	p.d.3.1 1.2 mm - 1.4 mm 2 mm - 3 mm
Probe length	From 45 to 200 mm
Model	Straight, bayonet, curved, ball straight, ball bayonet
Cable length	V 250 cm
Connector	V 1,5 mm T.P. connector DIN 42802

Environment

RoHS II	✓
REACH	✓

p.d.3.3



Description

Designed for cortex stimulation. The handgrip has a clear indication of the polarity of the electrodes. The ball and the shaft are a single piece of stainless steel perfectly tooled to give the best stability and safety. The ball is available in 2 mm diameter. The shaft is fully isolated for a precise stimulation point.

- Light and ergonomic handgrip;
- Safety connector 1,5 mm DIN 42802.

UMDNS 11453

Materials

Safety

Specifications

Environment

Electrode	Stainless Steel
Electrode insulation	PVDF
Handgrip	PS
Lead wire	Cu/Sn with PVC jacket
Connector	CuZn with PVC jacket
Packaging	Medical paper/PET-PE
Biocompatibility <i>(UNI EN ISO 10993)</i>	Yes
Sterilization method	Ethylene oxide (EtO)
Latex	No
Phthalates	No
Generic code	✓ SI2BXXXXXXXXXD
Probe diameter	✓ 2 mm
Probe length	✓ 30 mm – 100 mm
Model	Straight
Cable length	✓ 250 cm
Connector	✓ 1,5 mm T.P. connector DIN 42802
RoHS II	✓
REACH	✓

p.d.3.6.

1. Vienkartinis sterilus bipoliarinis stimulatorius “minišakutė” – periferinių nervų šakų stimuliacija;
2. Atstumas tarp šakučių 5 mm;
3. Stimulatoriaus ilgis 45 mm
3. Laido ilgis 250 cm
4. Jungtis Touch Proof, diametras 1,5 mm



Description

The shaft distance is precise and constant thanks to the micro moulding.
The tips are perfectly blunted for the safety of the tissues.
The handgrip has a clear indication of the polarity of the electrodes.

- Light and ergonomic handgrip;
- Safety connector 1,5 mm DIN 42802.

UMDNS 11453

Materials

Electrode	Stainless Steel
Electrode insulation	PTFE, PS
Handgrip	PS
Lead wire	Cu/Sn with PVC jacket
Connector	CuZn with PVC jacket
Packaging	Medical paper/PET-PE

Safety

Biocompatibility <i>(UNI EN ISO 10993)</i>	Yes
Sterilization method	Ethylene oxide (EtO)
Latex	No
Phthalates	No

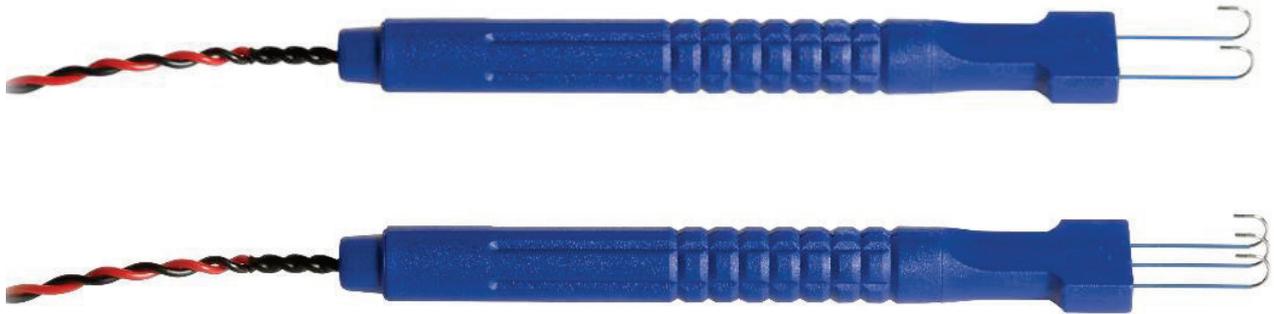
Specifications

Generic code	✓ SI2FXXXXXXXXXD SI3FXXXXXXXXXD SI2GXXXXXXXXXD
Probe length	✓ From 45 to 100 mm
Model	Straight bipolar, bayonet bipolar, bent bipolar, bent tripolar
Cable length	✓ 250 cm
Connector	✓ 1,5 mm T.P. connector DIN 42802

Environment

RoHS II	✓
REACH	✓

P.D.3.6 ir p.d.3.7



Description

Specifically designed for peripheral nerve monitoring the electrode is isolated up to the hook.

The tip of the hook is perfectly blunted to avoid any tissue injury.

Available in bipolar and bipolar triple version to reduce the shock artifact.

The handgrip has a clear indication of the polarity of the electrodes.

- Light and ergonomic handgrip;
- Safety connector 1,5 mm DIN 42802.

UMDNS 11453

Materials

Safety

Specifications

Environment

Electrode	Stainless Steel
Electrode insulation	PTFE
Handgrip	PS
Lead wire	Cu/Sn with PVC jacket
Connector	CuZn with PVC jacket
Packaging	Medical paper/PET-PE
Biocompatibility (UNI EN ISO 10993)	Yes
Sterilization method	Ethylene oxide (EtO)
Latex	No
Phthalates	No
Generic code	<input checked="" type="checkbox"/> SI2HXXXXXXXXXD <input checked="" type="checkbox"/> SI3HXXXXXXXXXD
Probe diameter	0,65 mm
Probe length	<input checked="" type="checkbox"/> 20 mm
Model	<input checked="" type="checkbox"/> Hook, triple hook
Cable length	<input checked="" type="checkbox"/> 250 cm
Connector	<input checked="" type="checkbox"/> 1,5 mm T.P. connector DIN 42802
RoHS II	✓
REACH	✓

p.d.3,9

1. Vienkartinis sterilus stimulatorius lankstoma galvute;
2. Elektrodo dydis: diametras 0,5 mm, stimulatoriaus ilgis 95 mm;
3. Laido ilgis 250 cm
4. Jungtis Touch Proof, diametras 1,5 mm



Description

The electrode is conical and terminate in a perfectly blunted micro tip.

The isolated shaft is flexible and keep the shape for an easy modification by the operator. This probe is designed to reach small stimulation spots and can be adapted by the operator to reach any cavity.

- Light and ergonomic handgrip;
- Safety connector 1,5 mm DIN 42802.

UMDNS 11453

Materials

Electrode	Stainless Steel
Electrode insulation	PTFE
Handgrip	PS
Lead wire	Cu/Sn with PVC jacket
Connector	CuZn with PVC jacket
Packaging	Medical paper/PET-PE

Safety

Biocompatibility (UNI EN ISO 10993)	Yes
Sterilization method	Ethylene oxide (EtO)
Latex	No
Phthalates	No

Specifications

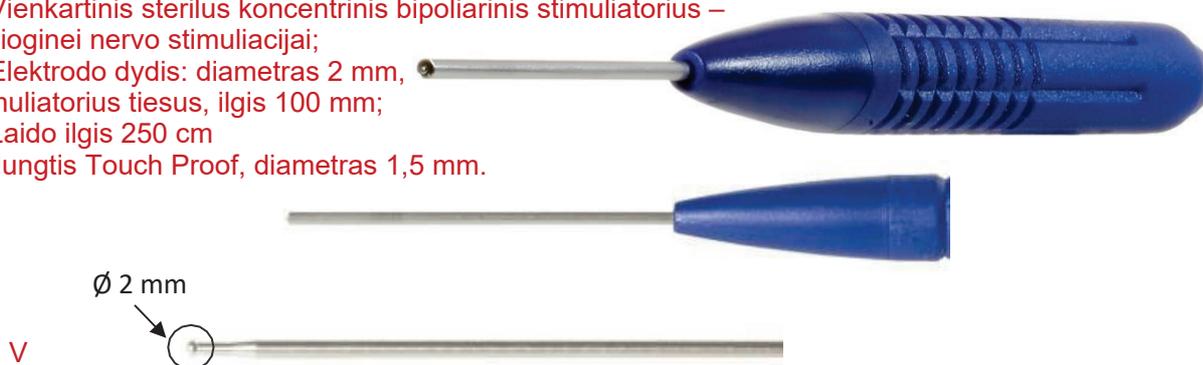
Generic code	SI1IFXXXXXXXXD
Tip diameter	V 0,5 mm
Probe length	V 95 mm
Cable length	V 250 cm
Connector	V 1,5 mm T.P. connector DIN 42802

Environment

RoHS II	✓
REACH	✓

p.d.3.4

1. Vienkartinis sterilus koncentrinis bipoliarinis stimulatorius – tiesioginei nervo stimuliacijai;
2. Elektrodo dydis: diametras 2 mm, stimulatorius tiesus, ilgis 100 mm;
3. Laido ilgis 250 cm
4. Jungtis Touch Proof, diametras 1,5 mm.



Description

Bipolar concentric stimulation probes are designed for direct nerve stimulation and focus the stimulation current on the area close to the probe tip.

The concentric probe has a blunt tip and enables a selective and atraumatic nerve stimulation.

Available also in ball tip version for the maximum safety of the tissues.

- Light and ergonomic handgrip;
- Safety connector 1,5 mm DIN 42802.

UMDNS 11453

Materials

Electrode	Stainless Steel
Handgrip	PS
Lead wire	Cu/Sn with PVC jacket
Connector	CuZn with PVC jacket
Packaging	Medical paper/PET-PE

Safety

Biocompatibility (UNI EN ISO 10993)	Yes
Sterilization method	Ethylene oxide (EtO)
Latex	No
Phthalates	No

Specifications

Generic code	✓ SI2CXXXXXXXXXD SI2TXXXXXXXXXD
Probe length	✓ From 45 to 170 mm
Model	Straight, bayonet, bent, ball
Cable length	✓ 250 cm
Connector	✓ 1,5 mm T.P. connector DIN 42802

Environment

RoHS II	✓
REACH	✓

MULTILAYER CORTICAL ELECTRODE

CEREBRO

STRIP ELECTRODES

p.d. 4.1-4.2-4.3



BY YOUR SIDE TO
CO-CREATE NEW SOLUTIONS FOR
NEURODIAGNOSTICS

Intracranial cortical electrodes, **Cerebro**, are used for **stimulation** and **recording** of **central nervous system signals**. Intracranial monitoring is used to **identify and map functional areas of the brain** during **pre-** and **post-surgical** phases and during surgical removal of brain tumors. The intracranial cortical electrodes are **multipolar arrays of electrodes** positioned on the cerebral cortex and can be used to stimulate or record.

The electrode is designed to **follow the complex anatomy of the brain**. The electrode can assume **different conformations** in relation to the demands of clinical needs. The electrode contact is in platinum to present the right impedance for the **best recording and stimulation**.

Key Points:

- ✓ **Patented technology**
- ✓ Flexible Material perfect for anatomical needs of the brain
- ✓ Platinum contact electrode
- ✓ **Optimal thickness** for contact area to improve the clinical usability during the insertion under the skull
- ✓ Twisted cables for **low noise**

PRODUCT SPECIFICATION

MATERIALS

● ELECTRODE	Platinum
● SUPPORT	PU
● LEAD WIRE	Cu/Sn with PVC jacket
● CONNECTOR	CuZn/Ni with PVC jacket
● PRIMARY	Medical Paper/PET
- PACKAGING	

SAFETY

- **BIOCOMPATIBILITY**
(UNI EN ISO 10993)
- **LATEX**
- **PHTHALATES**
- **STERILIZATION METHOD** ✓
- **PRODUCT TRACEABILITY**

Yes

No

No

Ethylene Oxide (EtO)
Indicated in the n° of lotto

ENVIRONMENT

- **RoHS II**
- **REACH**



Electrode diameters:

2-4 mm

Distance between electrodes:

10 mm

Number of electrodes:

SINGLE STRIP: 2, 4, 6, 8

GRID: 8 (2X4), 12 (2X6), 16 (2X8; 4X4),
20 (4X5), 32 (4X8), 64 (8X8)

✓

Cable length:

250 cm

✓

Connector Touch proof 1,5 mm DIN
42802

p.d.4.1

1. Vienkartinis, sterilus;
2. Su keturiais kontaktais;
3. Kontakto diametras 4 mm.
4. Laido ilgis 250 cm.

5. Jungtis Touch Proof, diametras 1,5 mm.

p.d.4.2

1. Vienkartinis, sterilus;
2. Su šešiais kontaktais;
3. Kontakto diametras 4 mm.
4. Laido ilgis 250 cm.

5. Jungtis Touch Proof, diametras 1,5 mm.

p.d.4.3.

1. Vienkartinis, sterilus;
2. Su aštuoniais kontaktais;
3. Kontakto diametras 4 mm.
4. Laido ilgis 250 cm.

5. Jungtis Touch Proof, diametras 1,5 mm.

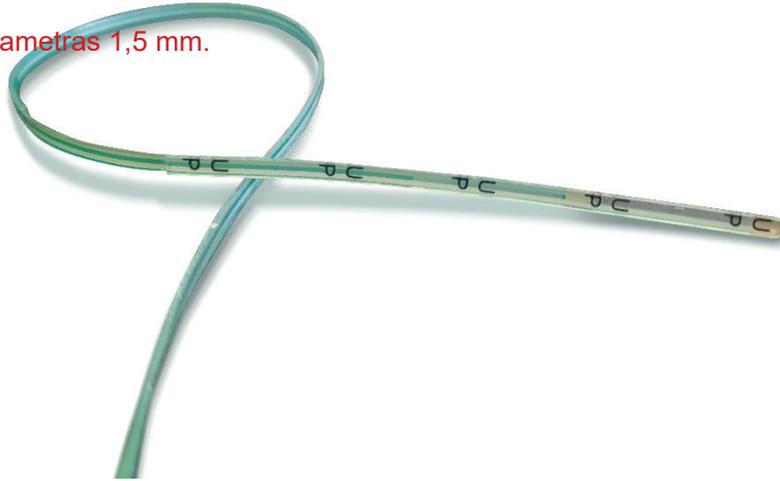
CODE	DESCRIPTION	DIAMETRO ELETTRODO	PACK
IEP0005	2 contacts strip	4 mm	1 pc
p.d.4.1 IEP0006	4 contacts strip V	4 mm V	1 pc
p.d.4.2 IEP0007	6 contacts strip V	4 mm V	1 pc
p.d.4.3 IEP0008	8 contacts strip V	4 mm V	1 pc
IEP0011	12 contacts grid (2x6)	2 mm	1 pc
IEP0090	8 contacts grid (2x4)	4 mm	1 pc
IEP0039	20 contacts grid (4x5)	2 mm	1 pc
IEP0129	4 contacts strip flower shape	4 mm	1 pc
IEP0136	2 contacts T strip	4 mm	1 pc
IEP0137	4 contacts T strip	4 mm	1 pc



Connector Touch proof 1,5 mm DIN 42802 V

p.d.4.4

1. Vienkartinis, sterilus;
1. Kontakto diametras 2x3 mm.
2. Laido ilgis 250 cm.
3. Jungtis Touch Proof, diametras 1,5 mm.



Description

Spes Medica electrodes for central nervous system are disposable electrodes used for electrical stimulation and recording during the intraoperative monitoring.

The D-WAVE is a multipole array of electrodes that is positioned on the spinal column for the D-wave recording.

- Single use
- Distance between contacts optimized to get the best recording of the D-wave
- Flat recording area to get more stability during the recording
- Maximum flexibility

UMDNS 11453

Materials

Electrode	Platinum
Support	PU
Lead wire	Cu/Sn with PVC jacket
Connector	CuZn/Ni with PVC jacket
Packaging	Medical Paper/PET

Safety

Biocompatibility (UNI EN ISO 10993)	Yes
Sterilization method	Ethylene Oxide (EtO) ✓
Latex	No
Phthalates	No

Specifications

Codes	IEP0184 IEP0185 ✓
Number of contacts	2 contacts (code IEP0184) 3 contacts (code IEP0185) ✓
Contacts dimension	2x3 mm ✓
Cable length	250 cm ✓
Connector	Touch proof 1,5 mm DIN 42802 ✓

Environment

RoHS II	✓
REACH	✓

p.d.4.5

1. Priklijuojami stimuliacijos akiniai regos sukeltiesiems potencialams;
2. Laido ilgis 150cm.
3. Jungtis Touch Proof, diametras 1,5 mm



Description

Intraoperative flash VEP monitoring allows detection of dysfunction arising anywhere in the optic pathway, from the retina to the visual cortex.

- Single eye or set for 2 eyes
- 200 cm twisted leadwire
- Available different adapters for different IOM systems

UMDNS 11614

Materials

Led support Foam

Lead wire Cu/Sn with PVC jacket

Connector CuZn with PVC jacket

Packaging PE

Safety

Biocompatibility
(UNI EN ISO 10993) Yes

Latex No

Phthalates No

Specifications

Generic code V VLEDXX

Light White or Red

Pulse Duration 5ms

Correspondence mA to Lux
20mA : 5000 Lux
30mA : 10000 Lux
40mA : 15000 Lux
Do not pass 40mA

Led diameter 14 mm

Cable length 200 cm

Connector V 1,5 mm T.P. connector DIN 42802

Environment

RoHS II ✓

REACH ✓



p.d.4.6.

1. Su stimuliavimo bei registracijos elektrodais gerklų refleksui monitoruoti;
2. Diametras 7 mm.
3. Armuoti;
3. Laido ilgis 200 cm
4. Jungtis Touch Proof, diametras 1,5 mm.



Description

The laryngeal electrodes integrated on the endotracheal tube are an innovation technology allowing the elimination of the positioning error of the electrode on the tube.

The visibility of the electrode area makes the positioning of the electrodes on the vocal cords easier.

Besides the armed version of the tube is characterized by a stiffness avoiding the tube bending without losing the flexibility needed

UMDNS 11441

Materials

Safety

Specifications

Environment

Electrode	Ag
Substrate	PU, PET
Tube	PVC
Lead wire	Cu/Sn with PVC jacket
Connector	CuZn with PVC jacket
Packaging	Medical paper/PET
Biocompatibility (UNI EN ISO 10993)	Yes
Sterilization method	✓ Ehtylene oxide (EtO)
Latex	No
Phthalates	No
Generic codes	✓ LSEXXX
Number of channels	1 - 2
Tube dimension	✓ 6 - 7 - 8 - 9 mm
Cable length	75 - 200 cm ✓
Cable colour	● ●
Connector	✓ Touch Proof 1,5 mm DIN 42802
RoHS II	✓
REACH	✓

Laryngeal Tube Electrodes

- Innovative Laryngeal Electrodes directly integrated into the surface of the Endotracheal Tube
- Atraumatic but robust electrode for a reliable nerve monitoring
- Safe, effective on any EMG platform
- Optimized for precise placement and to avoid risk of mistakes during application on ET tube
- Available in Armored version to facilitate insertion and avoid risk of tube kinking
- Wide recording area to minimize effects of possible displacement of electrode on the vocal cords

Code	Channels N°	Cable Length	ET Tube Diameter	ET Tube Version	Pack
LSEP001	1	6 mm	Non-Armored	75 cm	5 pcs
LSEP002	1	7 mm	Non-Armored	75 cm	5 pcs
LSEP003	1	8 mm	Non-Armored	75 cm	5 pcs
LSEP005	2	6 mm	Non-Armored	200 cm	5 pcs
LSEP006	2	7 mm	Non-Armored	200 cm	5 pcs
LSEP007	2	8 mm	Non-Armored	200 cm	5 pcs
LSEPA01	1	6 mm	Armored	75 cm	5 pcs
LSEPA02	1	7 mm	Armored	75 cm	5 pcs
LSEPA03	1	8 mm	Armored	75 cm	5 pcs
LSEPA05	2	6 mm	Armored	200 cm	5 pcs
p.d.4.6 LSEPA06	2	✓ 7 mm	✓ Armored	✓ 200 cm	5 pcs
p.d.4.7 LSEPA07	2	✓ 8 mm	✓ Armored	✓ 200 cm	5 pcs

Touch Proof Ø 1,5 mm DIN 42802



RUDAFIX®

p.d.5.1

1. Slidi, lipni chirurginè juostelè;

2. Plotis 2,5 cm.

3. Ilgis 9,14 m

REF 070192

Product Description, Intended use, Application

V The hypoallergenic fixation tape (2.50 cm x 9.14 m, without side discs) is made of a transparent, perforated film and is coated with a polyacrylate adhesive. The fixation tape is easy to tear both crosswise as well as lengthwise and is suited for the fixation of wound pads, bandage dressings, tubes and catheters.

Composition

Polyethylene, polyacrylate adhesive

Contraindications

The product should not be used in the case of a known allergy against the material.

Notes

To avoid swelling and circulatory disorders, fixation tapes are not applied on the extremities under tension in a circular way.

Incident reporting

According to MDR (EU) 2017/745, if serious incidents occur in relation to the device, they must be reported to the manufacturer and the competent authority of the Member State in which the user and/or patient is established.

Normative and Legal Requirements

RUDAFIX® is a medical product according to directive MDD 93/42/EEC and the regulation MDR (EU) 2017/745.

The product does not contain dangerous toxic substances according to REACH.

Packaging

Primary packaging: folding box made of cellulose

Secondary packaging: carton made of cellulose

Symbols used in labelling

Explanations at www.nobamed.com



Marking on all packaging levels with CE and according to DIN EN ISO 15223-1- and DIN EN 1041.

Storage and transport

To be stored in a dry and dust-free environment, protected against sunlight.

Single use device

Reusing a single use medical device can lead to microbiological danger. Reprocessing, for reuse can decrease the product's performance significantly.

Disposal

According to locally applicable legal regulations and standards of infection prophylaxis.



NOBAMED Paul Danz AG

p.d.5.2

1. Skaidrus chirurginis pleistras;
2. Išmatavimai (10x12) cm

NOBADERM®

V REF 161012

Product Description, Intended use, Application

- V NOBADERM® (10 cm x 12 cm) is a sterile, transparent film dressing. It is made of polyurethane and is equipped with an adhesive coating based on polyacrylate. NOBADERM® as primary wound dressing protects wounds from the penetration of germs and serves as catheter fixation.

Composition

Polyurethane film, adhesive based on polyacrylate

Contraindications

Do not use NOBADERM® for infected wounds. Not suited as primary wound dressing for heavily bleeding or highly exuding wounds. Do not use if there is a known allergy to one of the ingredients of NOBADERM®.

Incident reporting

According to MDR (EU) 2017/745, if serious incidents occur in relation to the device, they must be reported to the manufacturer and the competent authority of the Member State in which the user and/or patient is established.

Normative and Regulatory Requirements, Common Standards

Medical Device according to MDD 93/42/EEC and MDR (EU) 2017/745.

The product does not contain dangerous toxic substances according to REACH.

Sterilization of the product complies with DIN EN ISO 11135.

Packaging

Primary: paper-film packaging

Secondary: folding box made of cellulose

Tertiary: carton made of cellulose

Symbols used in labelling

Explanations at www.nobamed.com



Marking on all packaging levels with CE and according to DIN EN ISO 15223-1- and DIN EN ISO 20417.

Storage and Transport

Expiry date on all packaging levels, protect against moisture, sunlight and heat, store in a dust-free environment at room temperature. The product must no longer be used after the expiry date has passed.

Sterile device

Contents sterile only if package is intact. If the primary package is damaged, the product may no longer be used.

Single use device

Reusing a single use medical device can lead to microbiological danger. Reprocessing for reuse can decrease the product's performance significantly.

Disposal

According to locally applicable legal regulations and standards of infection prophylaxis.