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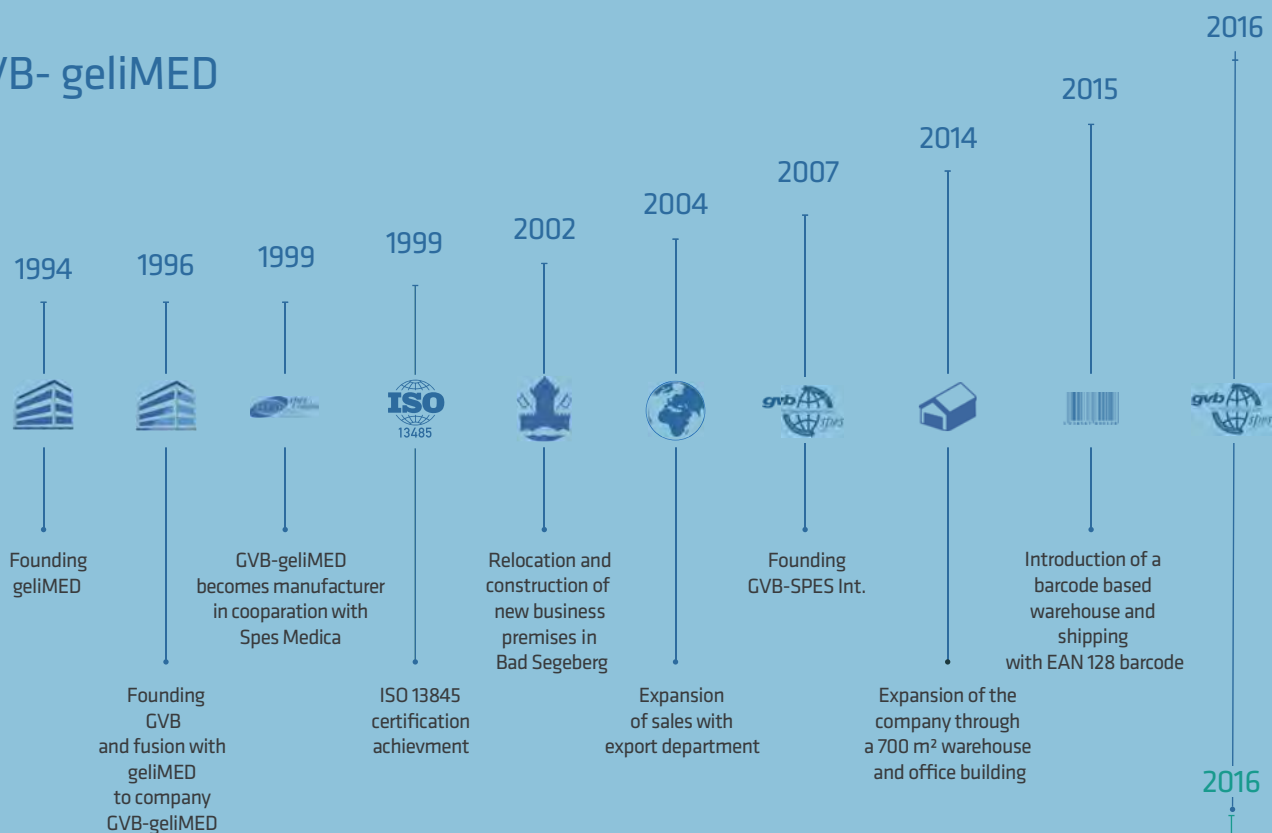
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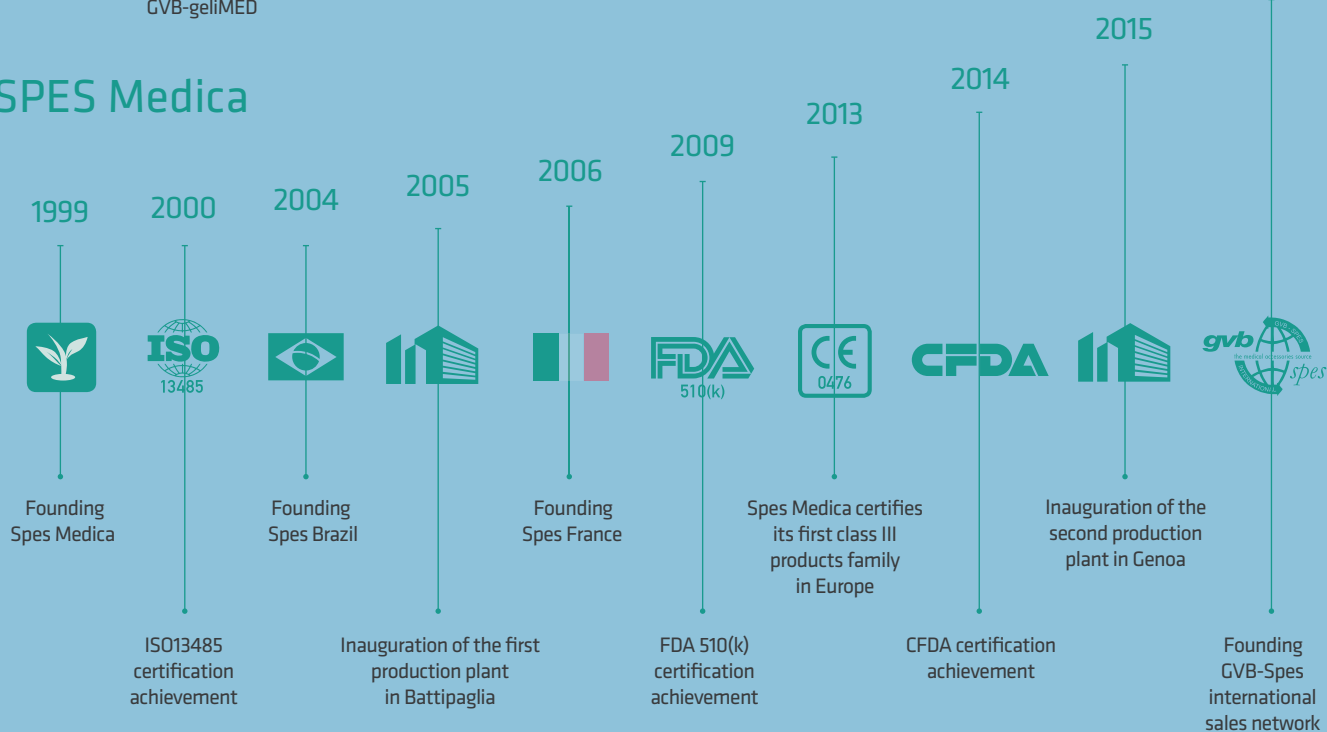


Welcome to GVB-SPES

GVB- geliMED



SPES Medica





Mission

Our goals

The new and further development of high-quality products
in collaboration with our partner SPES Medica,
continuous improvement and respect for the patients
are the key concepts of our way too
a global reference company in the medical field.

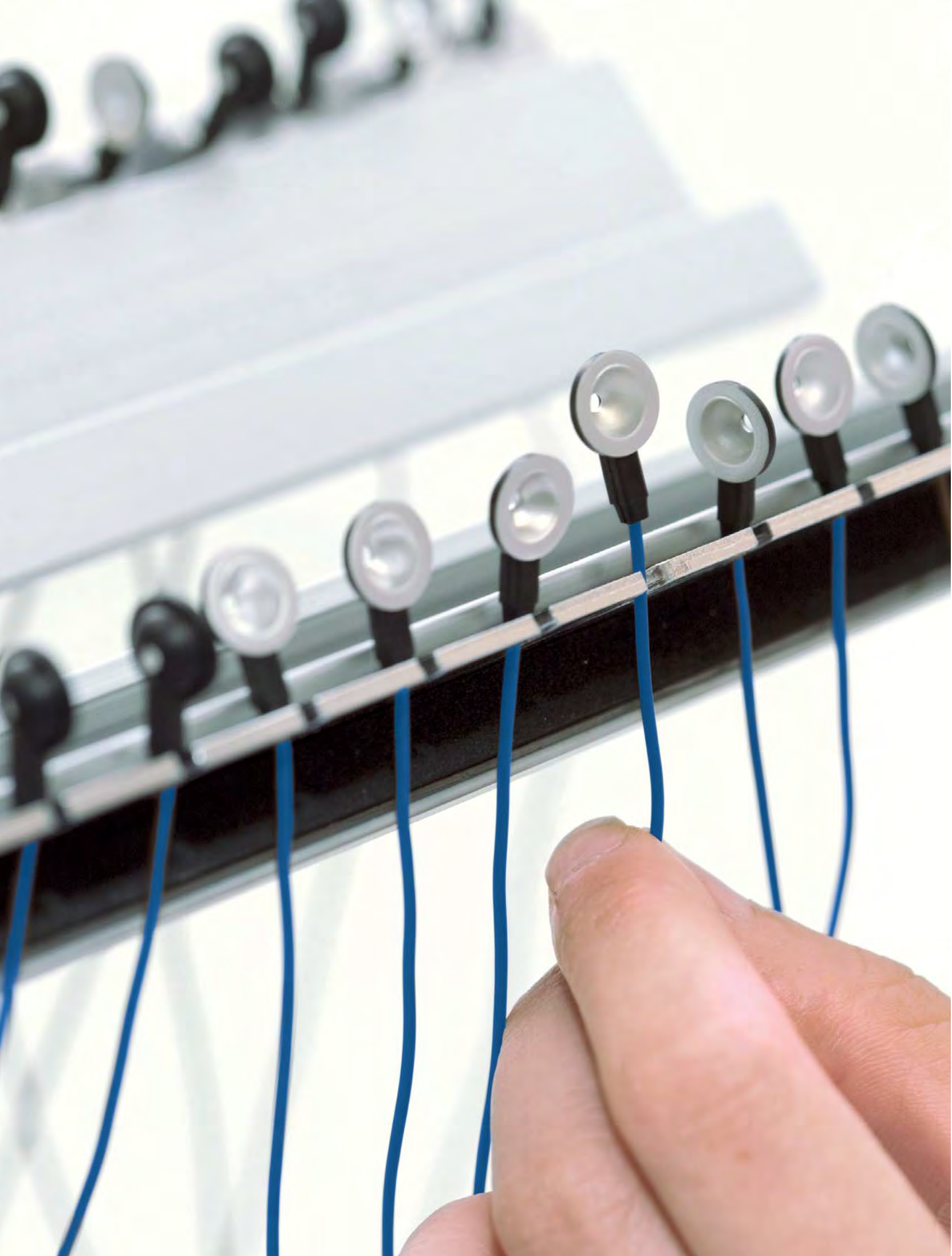


Research and Development

High Tech Design

The R&D team of our Partner, made up of qualified professionals, design and produce forefront medical devices by using the latest generation technology.

The intense and tireless research activity, strengthened by the experience of more than 20 years of production, characterizes our working method.



Creating high quality products

The full range of Spes Medica products are manufactured at their plants in Italy. Spes Medica and GVB-SPES are committed to act fully in accordance with all required rules and quality standards for medical products. As a customer satisfaction guarantee we are certified for the Quality Management System according to ISO 13485 and 93/42/EEC. Our products are registered with CE, FDA, CFDA, Anvisa and many other international organizations.



Quality Management
System



European
Conformity



Food and Drugs
Administration USA



China Food and Drugs
Administration



Agência Nacional de
Vigilância Sanitária



Instituto Nacional
de Vigilancia de
Medicamentos y
Alimentos



U.S.A

South
America

Brazil

United Kingdom

France

Spain

BeNeLux

Scandinavia

Germany

Italy

Israel

South Africa



unimed
electrode supplies

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With our selection of MultiCaps you get the greatest possible flexibility in the number and positioning of the electrodes. Choose this convenient application for you and your patients.

- MultiCap Flat
- MultiCap Doc
- MultiCap Cup
- MultiCap Soft
- MultiCap Base
- MultiCap MRI
- MultiCap TES
- MultiCap Accessories

EEG / MultiCaps



because, as well as being easy to position, you can quickly react to artefacts during use by simply relocating the electrode holder/positions.



because you have the choice of 11 sizes between 24 and 66 cm and one with up to 128 electrodes which can be placed individually.



because for different Cap sizes you need only one electrode queue.



because you can use MultiCap in long-term sleep-recording, in the routine, as well as with restless patients and in research.



because a wide range of accessories are also available.



because the cap material allows for immediate use for the next measurement after a short but thorough clean.

Material

The electrodes on our headcaps are made of:



Tin

Sn



Silver/Silver Chloride

Ag /AgCl



Sintered Silver/Silver Chloride

Sintered Ag/AgCl



Gold

Au

Connectors

We offer a wide range of connectors. Please find below the standard versions:



Touch Proof
DIN 42802



Sub-D 25



Sub-D 37



Further configurations are available according to your needs.

Cables

GVB-SPES provides two different cable configurations:

Twisted cables



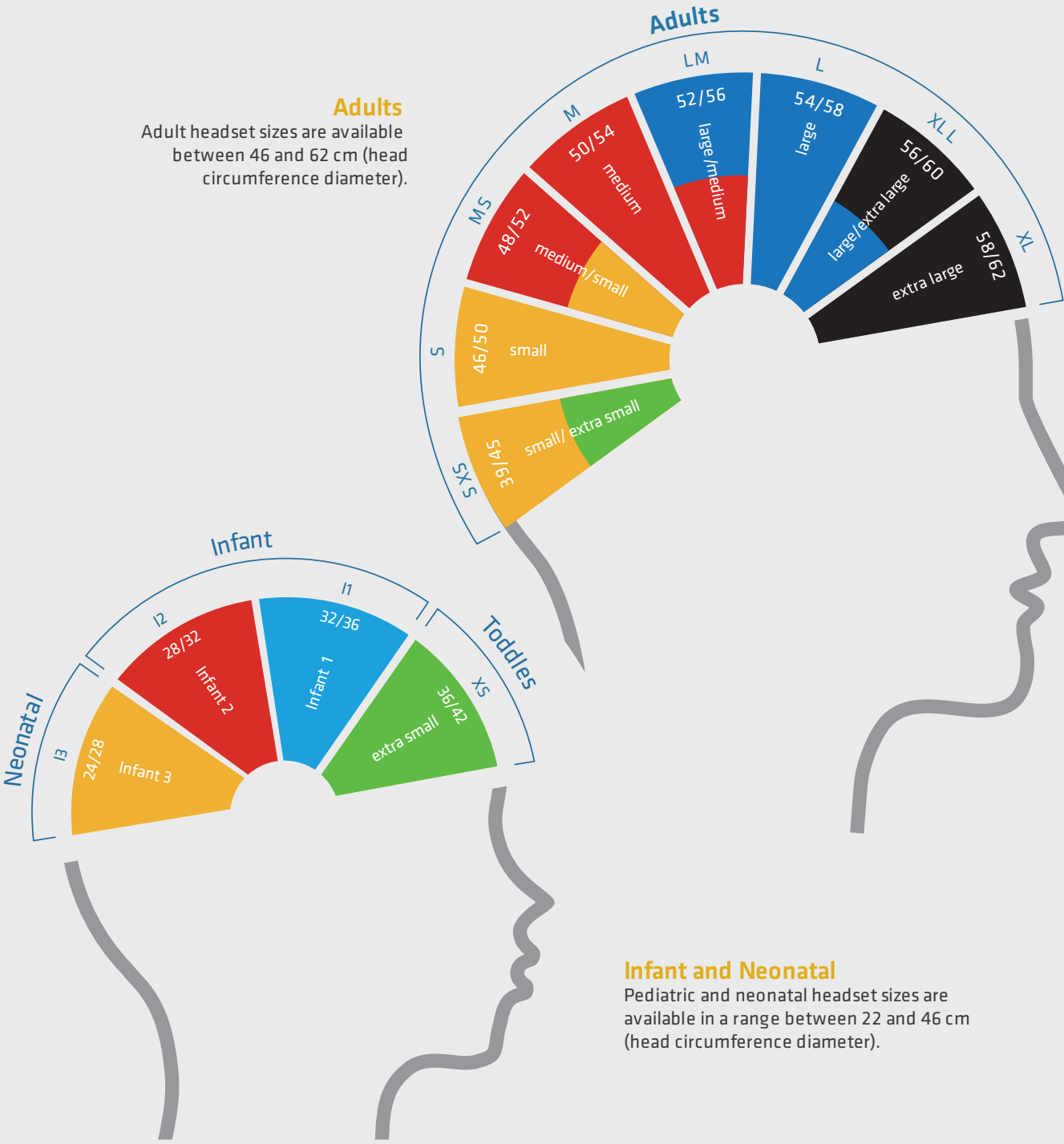
Single cables



MultiCap Sizes / EEG

MultiCap Sizes

We offer numerous headset sizes depending on your patients needs.

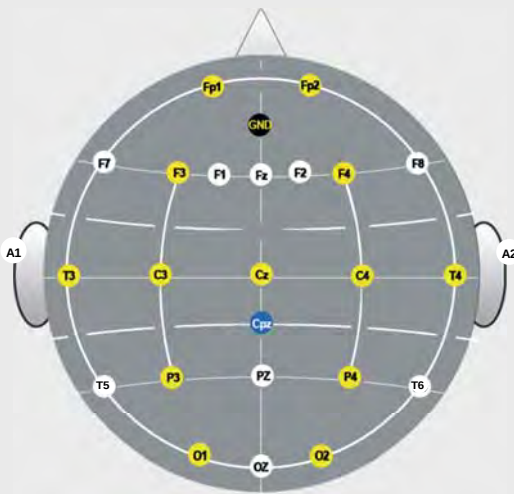


International 10-20 System

The electrode positions of all MultiCaps are made in accordance with the International 10-20 System. GVB-SPES offers the possibility to customize the electrode layout up to a 128-channel application.

14 Electrodes Scheme

Cap Size: XL, XLL, L, LM, M, MS, S, XS



21 Electrodes Scheme

Cap Size: XL, XLL, L, LM, M, MS, S, XS



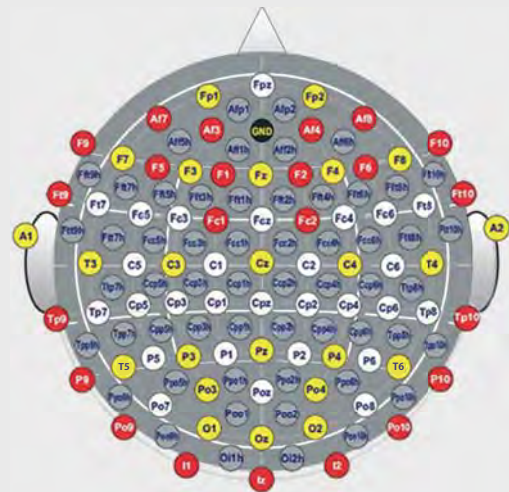
74 Electrodes Scheme

Cap Size: XL, XLL, L, LM, M, MS, S



128 Electrodes Scheme

Cap Size: XL, XLL, L, LM, M



EEG / Headcaps with Prewired Electrodes

MultiCap FLAT - for long-term application

MCScap Sleep



External Electrode Detail



Electrode Detail



Sintered Ag/AgCl



Headcaps with Prewired Electrodes / EEG

Multicap FLAT

MCScap Sleep

Adult
Infant

Code 20 Electrodes	Code 21 Electrodes	Head Circumference	Connectors	Pack
MF-XL20-00KK25-A	MF-XL21-00KK25-A	XL 60-66 cm ●		1 pc
MF-XLL20-00KK25-A	MF-XLL21-00KK25-A	XLL 57-63 cm ●●		1 pc
MF-L20-00KK25-A	MF-L21-00KK25-A	L 54-60 cm ●		1 pc
MF-LM20-00KK25-A	MF-LM21-00KK25-A	LM 51-57 cm ●●		1 pc
MF-M20-00KK25-A	MF-M21-00KK25-A	M 48-54 cm ●		1 pc
MF-MS20-00KK25-A	MF-MS21-00KK25-A	MS 45-51 cm ●●		1 pc
MF-S20-00KK25-A	MF-S21-00KK25-A	S 42-48 cm ●		1 pc
MF-SXS20-00KK25-A	MF-SXS21-00KK25-A	SXS 39-45 cm ●●		1 pc
MF-XS20-00KK25-A	MF-XS21-00KK25-A	XS 36-42 cm ●		1 pc
Code 20 Electrodes	Code 21 Electrodes	Head Circumference	Connectors	Pack
MFI-1-20-00KK25-A	MFI-1-21-00KK25-A	I1 32-36 cm ●		1 pc
Code 14 Electrodes	Code 15 Electrodes	Head Circumference	Connectors	Pack
MFI-2-14-00KK25-A	MFI-2-15-00KK25-A	I2 28-32 cm ●		1 pc
MFI-3-14-00KK25-A	MFI-3-15-00KK25-A	I3 24-28 cm ●		1 pc

Caps with more or less electrodes on request.

Electrodes for MultiCap FLAT

Code	Description	Length	Connectors	Pack
MF-17-A-26-S15	Single electrode with 1,5mm Din plug	150 cm		5 pcs
MF-17-A-10250-S15	Electrode queue with 10 sintered Ag/AgCl electrodes	150 cm		1 pc
MF-17-A-11250-S15	Electrode queue with 11 sintered Ag/AgCl electrodes	150 cm		1 pc
MF-17-A-14250-S15	Electrode queue with 14 sintered Ag/AgCl electrodes	150 cm		1 pc
MF-17-A-15250-S15	Electrode queue with 15 sintered Ag/AgCl electrodes	150 cm		1 pc
MF-17-A-20250-S15	Electrode queue with 20 sintered Ag/AgCl electrodes	150 cm		1 pc
MF-17-A-21250-S15	Electrode queue with 21 sintered Ag/AgCl electrodes	150 cm		1 pc



Other connector types on request.

MultiCap DOC - for routine

**Support headcap made
with soft material**
designed for greater
patient comfort.

Provides a better access
to the scalp through
holes on the headset.

Without electrode holder for patients comfort and it is easily removable.

Single cables in a sleeve

Explicated REF electrode
on the cap.

- Electrodes available in Ag/AgCl

International 10-20 System
used as reference for the
placement of electrodes.

Chin holder
is included in the package.



Headcaps with Prewired Electrodes / EEG

MultiCap DOC

MCScap Clinic

Adult
Infant

Code 20 Electrodes	Code 21 Electrodes	Head Circumference	Connectors	Pack
MD-XL20-00KK25-C	MD-XL21-00KK25-C	XL 60-66 cm ●		1 pc
MD-XLL20-00KK25-C	MD-XLL21-00KK25-C	XLL 57-63 cm ●●		1 pc
MD-L20-00KK25-C	MD-L21-00KK25-C	L 54-60 cm ●		1 pc
MD-LM20-00KK25-C	MD-LM21-00KK25-C	LM 51-57 cm ●●		1 pc
MD-M20-00KK25-C	MD-M21-00KK25-C	M 48-54 cm ●		1 pc
MD-MS20-00KK25-C	MD-MS21-00KK25-C	MS 45-51 cm ●●		1 pc
MD-S20-00KK25-C	MD-S21-00KK25-C	S 42-48 cm ●		1 pc
MD-SXS20-00KK25-C	MD-SXS21-00KK25-C	SXS 39-45 cm ●●		1 pc
MD-XS20-00KK25-C	MD-XS21-00KK25-C	XS 36-42 cm ●		1 pc
Code 20 Electrodes	Code 21 Electrodes	Head Circumference	Connectors	Pack
MDI-1-20-00KK25-C	MDI-1-21-00KK25-C	I1 32-36 cm ●		1 pc
Code 14 Electrodes	Code 15 Electrodes	Head Circumference	Connectors	Pack
MDI-2-14-00KK25-C	MDI-2-15-00KK25-C	I2 28-32 cm ●		1 pc
MDI-3-14-00KK25-C	MDI-3-15-00KK25-C	I3 24-28 cm ●		1 pc

Caps with more or less electrodes on request.

Electrodes for MultiCap DOC

Code	Description	Length	Connector	Pack
MD-17-C-26-S15	Single Ag/AgCl electrode with 1,5mm Din plug	150 cm		5 pcs
MD-17-C-10250-S15	Electrode queue with 10 Ag/AgCl electrodes	150 cm		1 pc
MD-17-C-11250-S15	Electrode queue with 11 Ag/AgCl electrodes	150 cm		1 pc
MD-17-C-14250-S15	Electrode queue with 14 Ag/AgCl electrodes	150 cm		1 pc
MD-17-C-15250-S15	Electrode queue with 15 Ag/AgCl electrodes	150 cm		1 pc
MD-17-C-20250-S15	Electrode queue with 20 Ag/AgCl electrodes	150 cm		1 pc
MD-17-C-21250-S15	Electrode queue with 21 Ag/AgCl electrodes	150 cm		1 pc



Other connector types on request.

EEG / Headcaps with Prewired Electrodes

MultiCap PRO - for routine

MCSap Professional



External Electrode Detail



Electrode Detail



Gesintert Ag/AgCl



Headcaps with Prewired Electrodes / EEG

MultiCap PRO

Adult Infant

Code 20 Electrodes	Code 21 Electrodes	Head Circumference	Connectors	Pack
MP-XL20-00KK25-A	MP-XL21-00KK25-A	XL 60-66 cm ●		1 pc
MP-XLL20-00KK25-A	MP-XLL21-00KK25-A	XLL 57-63 cm ●●		1 pc
MP-L20-00KK25-A	MP-L21-00KK25-A	L 54-60 cm ●		1 pc
MP-LM20-00KK25-A	MP-LM21-00KK25-A	LM 51-57 cm ●●		1 pc
MP-M20-00KK25-A	MP-M21-00KK25-A	M 48-54 cm ●		1 pc
MP-MS20-00KK25-A	MP-MS21-00KK25-A	MS 45-51 cm ●●		1 pc
MP-S20-00KK25-A	MP-S21-00KK25-A	S 42-48 cm ●		1 pc
MP-SXS20-00KK25-A	MP-SXS21-00KK25-A	SXS 39-45 cm ●●		1 pc
MP-XS20-00KK25-A	MP-XS21-00KK25-A	XS 36-42 cm ●		1 pc
Code 20 Electrodes	Code 21 Electrodes	Head Circumference	Connectors	Pack
MPI-1-20-00KK25-A	MPI-1-21-00KK25-A	I1 32-36 cm ●		1 pc
Code 14 Electrodes	Code 15 Electrodes	Head Circumference	Connectors	Pack
MPI-2-14-00KK25-A	MPI-2-15-00KK25-A	I2 28-32 cm ●		1 pc
MPI-3-14-00KK25-A	MPI-3-15-00KK25-A	I3 24-28 cm ●		1 pc

Caps with more or less electrodes on request.

Electrodes for MultiCap DOC

Code	Description	Length	Connector	Pack
MP-17-A-26-S15	Single Ag/AgCl electrode with 1,5mm Din plug	150 cm		5 pcs
MP-17-A-10250-S15	Electrode queue with 10 Ag/AgCl electrodes	150 cm		1 pc
MP-17-A-11250-S15	Electrode queue with 11 Ag/AgCl electrodes	150 cm		1 pc
MP-17-A-14250-S15	Electrode queue with 14 Ag/AgCl electrodes	150 cm		1 pc
MP-17-A-15250-S15	Electrode queue with 15 Ag/AgCl electrodes	150 cm		1 pc
MP-17-A-20250-S15	Electrode queue with 20 Ag/AgCl electrodes	150 cm		1 pc
MP-17-A-21250-S15	Electrode queue with 21 Ag/AgCl electrodes	150 cm		1 pc



Other connector types on request.

EEG / Headcaps with Prewired Electrodeholders

MultiCap CUP - for use with cup electrodes

Support headcap made with soft material designed for greater patient comfort.

Provides a better access to the scalp through holes on the headset.

Holder for standard 10 mm cup electrode

Single cables in a sleeve

Explicated REF electrode on the cap.

Electrodes available in:
Ag/AgCl - Gold

International 10-20 System used as reference for the placement of electrodes.

Chin holder is included in the package.

External Electrode Detail



Electrode Detail



Gold



Ag/AgCl



Cup Electrodes can be found on page 30 and 73

Headcaps with Prewired Electrodeholders / EEG

MultiCap CUP (without electrodes)

Adult

Code 21 Holders	Head Circumference	N° Holders	Pack
MC-XLKK-20RK00-K	XL 60-66 cm ●	19 + GND + Ref.	1 pc
MC-XLLKK-20RK00-K	XLL 57-63 cm ●●	19 + GND + Ref.	1 pc
MC-LKK-20RK00-K	L 54-60 cm ●	19 + GND + Ref.	1 pc
MC-LMKK-20RK00-K	LM 51-57 cm ●●	19 + GND + Ref.	1 pc
MC-MKK-20RK00-K	M 48-54 cm ●	19 + GND + Ref.	1 pc
MC-MSKK-20RK00-K	MS 45-51 cm ●●	19 + GND + Ref.	1 pc
MC-SKK-20RK00-K	S 42-48 cm ●	19 + GND + Ref.	1 pc
MC-SXSKK-20RK00-K	SXS 39-45 cm ●●	19 + GND + Ref.	1 pc
MC-XSKK-20RK00-K	XS 36-42 cm ●	19 + GND + Ref.	1 pc

Infant

Code 21 Holders	Head Circumference	N° Holders	Pack
MCI-1KK-20RK00-K	I1 32-36 cm ●	13 + GND + Ref.	1 pc
Code 15 Holders	Head Circumference	N° Holders	Pack
MCI-2KK-14RK00-K	I2 28-32 cm ●	13 + GND + Ref.	1 pc
MCI-3KK-14RK00-K	I3 24-28 cm ●	13 + GND + Ref.	1 pc

Caps with more or less electrode holders on request.

Electrodes for MultiCap CUP

- Gold and Ag/AgCl electrodes with 10 different colored cables. Cables are made of teflon.
- Electrodes diameter is 10 mm.



Code	Material	Cable length	Connectors	Pack
DEGM102600	Gold	100 cm		10 pcs
DEGM152600	Gold	150 cm		10 pcs
DEGM252600	Gold	250 cm		10 pcs
DAGM102600	Ag/AgCl	100 cm		10 pcs
DAGM152600	Ag/AgCl	150 cm		10 pcs
DAGM252600	Ag/AgCl	250 cm		10 pcs
MC-AU-20250-S15	Gold	150 cm		1 pcs
MC-AU-21250-S15	Gold	150 cm		1 pcs
MC-AG-20250-S15	Ag/AgCl	150 cm		1 pcs
MC-AG-21250-S15	Ag/AgCl	150 cm		1 pcs

Other material and connector types on request.

EEG / Headcaps with Prewired Electrodeholders

MultiCap SOFT



External Electrode Detail



Electrode Detail



Tin



Electrode Detail



Sintered Ag/AgCl



Headcaps with Prewired Electrodes / EEG

MultiCap SOFT (without Electrodes)

A
d
u
l
t

Code 21 Holders	Head Circumference	N° Holders	Pack
MW-XLKK-20RK00-K	XL 60-66 cm ●	19 + GND + Ref.	1 pc
MW-XLLKK-20RK00-K	XLL 57-63 cm ●●	19 + GND + Ref.	1 pc
MW-LKK-20RK00-K	L 54-60 cm ●	19 + GND + Ref.	1 pc
MW-LMKK-20RK00-K	LM 51-57 cm ●●	19 + GND + Ref.	1 pc
MW-MKK-20RK00-K	M 48-54 cm ●	19 + GND + Ref.	1 pc
MW-MSKK-20RK00-K	MS 45-51 cm ●●	19 + GND + Ref.	1 pc
MW-SKK-20RK00-K	S 42-48 cm ●	19 + GND + Ref.	1 pc
MW-SXSKK-20RK00-K	SXS 39-45 cm ●●	19 + GND + Ref.	1 pc
MW-XSKK-20RK00-K	XS 36-42 cm ●	19 + GND + Ref.	1 pc

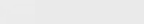
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Code 21 Holders	Head Circumference	N° Holders	Pack
MWI-1KK-20RK00-K	I1 32-36 cm ●	13 + GND + Ref.	1 pc

Code 15 Holders	Head Circumference	N° Holders	Pack
MWI-2KK-14RK00-K	I2 28-32 cm ●	13 + GND + Ref.	1 pc
MWI-3KK-14RK00-K	I3 24-28 cm ●	13 + GND + Ref.	1 pc

Caps with more or less electrode holders on request.

Electrodes for MultiCap SOFT

Code	Description	Connector	Pack
ME-17-A-26-S15	Single sint. AgCl electrode with 1,5 mm DIN plug		5 pcs
MW-17-Z-26-S15	Single tin electrode with 1,5 mm DIN plug		5 pcs
ME-17-A-10250-S15	Electrode queue with 10 sint. AgCl electrodes		1 pc
ME-17-A-11250-S15	Electrode queue with 11 sint. AgCl electrodes		1 pc
ME-17-A-14250-S15	Electrode queue with 14 sint. AgCl electrodes		1 pc
ME-17-A-15250-S15	Electrode queue with 15 sint. AgCl electrodes		1 pc
ME-17-A-20250-S15	Electrode queue with 20 sint. AgCl electrodes		1 pc
ME-17-A-21250-S15	Electrode queue with 21 sint. AgCl electrodes		1 pc
MW-17-Z-10250-S15	Electrode queue with 10 tin electrodes		1 pc
MW-17-Z-11250-S15	Electrode queue with 11 tin electrodes		1 pc
MW-17-Z-14250-S15	Electrode queue with 14 tin electrodes		1 pc
MW-17-Z-15250-S15	Electrode queue with 15 tin electrodes		1 pc
MW-17-Z-20250-S15	Electrode queue with 20 tin electrodes		1 pc
MW-17-Z-21250-S15	Electrode queue with 21 tin electrodes		1 pc

Tin



sintered Ag/AgCl



Other connector types on request.

MultiCap MRI - for long-term application

**Support headcap made
with soft material**
designed for greater
patient comfort.

Provides a better access
the scalp, through
les on the headset.

International 10-20 System
used as reference for the
placement of electrodes.

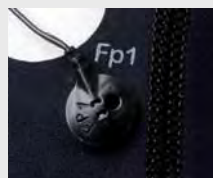
Chin holder
is included in the package.

- Explicated REF electrode on the cap.

Electrodes available in sintered Ag/AgCl.

Without electrode holder for excellent patient comfort and it is easily removable.

Single cables in a sleeve



Headcaps with Prewired Electrodes / EEG

MultiCap FLAT MRI



MCScap MRI

Adult Infant

Code	Head Circumference	Connectors	Pack
ME-XLKK-00KK00-K	XL 60-66 cm ●		1 pc
ME-XLLKK-00KK00-K	XLL 57-63 cm ●●		1 pc
ME-LKK-00KK00-K	L 54-60 cm ●		1 pc
ME-LMKK-00KK00-K	LM 51-57 cm ●●		1 pc
ME-MKK-00KK00-K	M 48-54 cm ●		1 pc
ME-MSKK-00KK00-K	MS 45-51 cm ●●		1 pc
ME-SKK-00KK00-K	S 42-48 cm ●		1 pc
ME-SXSKK-00KK00-K	SXS 39-45 cm ●●		1 pc
ME-XSKK-00KK00-K	XS 36-42 cm ●		1 pc
Code	Head Circumference	Connectors	Pack
ME-1KK-00KK00-K	I1 32-36 cm ●		1 pc
ME-2KK-00KK00-K	I2 28-32 cm ●		1 pc
ME-3KK-00KK00-K	I3 24-28 cm ●		1 pc

Electrodes for MultiCap FLAT MRI



Code	Description	Length	Connectors	Pack
MRI-17-A-26-S15-	Single electrode Ag/AgCl with 1,5mm Din plug	150 cm		5 pcs
MRI-17-A-10250-S15	Electrode queue with 10 sintered Ag/AgCl electrodes	150 cm		1 pc
MRI-17-A-11250-S15	Electrode queue with 11 sintered Ag/AgCl electrodes	150 cm		1 pc
MRI-17-A-14250-S15	Electrode queue with 14 sintered Ag/AgCl electrodes	150 cm		1 pc
MRI-17-A-15250-S15	Electrode queue with 15 sintered Ag/AgCl electrodes	150 cm		1 pc
MRI-17-A-20250-S15	Electrode queue with 20 sintered Ag/AgCl electrodes	150 cm		1 pc
MRI-17-A-21250-S15	Electrode queue with 21 sintered Ag/AgCl electrodes	150 cm		1 pc



Other connector types on request.

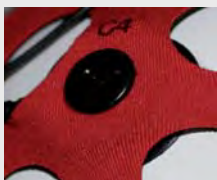
EEG / Headcaps with Prewired Electrodes

MultiCap TES for Transcranial Electrical Stimulation

MCScap TES



External Electrode Detail



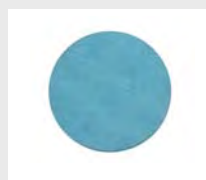
Electrode Detail



Electrode with Sponge



Sponge



Headcaps with Prewired Electrodes / EEG

MultiCap TES

MCScap TES

Adult

Code	Head Circumference	Pack
ME-XLKK-00KK00-K	XL 60-66 cm ●	1 pc
ME-XLLKK-00KK00-K	XLL 57-63 cm ●●	1 pc
ME-LKK-00KK00-K	L 54-60 cm ●	1 pc
ME-LMKK-00KK00-K	LM 51-57 cm ●●	1 pc
ME-MKK-00KK00-K	M 48-54 cm ●	1 pc
ME-MSKK-00KK00-K	MS 45-51 cm ●●	1 pc
ME-SKK-00KK00-K	S 42-48 cm ●	1 pc
ME-SXSKK-00KK00-K	SXS 39-45 cm ●●	1 pc
ME-XSKK-00KK00-K	XS 36-42 cm ●	1 pc

Infant

Code	Head Circumference	Pack
MEI-1KK-00KK00-K	I1 32-36 cm ●	1 pc
MEI-2KK-00KK00-K	I2 28-32 cm ●	1 pc
MEI-3KK-00KK00-K	I3 24-28 cm ●	1 pc

Electrodes for MultiCap TES

Code	Description	Length	Connectors	Pack
MTES-22	Single electrode Ag/AgCl with 1,5mm Din plug	150 cm		5 pcs
MTES-22-S	Electrode Sponge	-	-	10 pcs



Other connector types on request.

EEG / Headcaps without Electrodes and Holders

MultiCap



Headcaps without Electrodes and Holders / EEG

MultiCap (without Electrodes and Holders)

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Code	Head Circumference	Pack
ME-XLKK-00KK00-K	XL 60-66 cm ●	1 pc
ME-XLLKK-00KK00-K	XLL 57-63 cm ●●	1 pc
ME-LKK-00KK00-K	L 54-60 cm ●	1 pc
ME-LMKK-00KK00-K	LM 51-57 cm ●●	1 pc
ME-MKK-00KK00-K	M 48-54 cm ●	1 pc
ME-MSKK-00KK00-K	MS 45-51 cm ●●	1 pc
ME-SKK-00KK00-K	S 42-48 cm ●	1 pc
ME-SXSKK-00KK00-K	SXS 39-45 cm ●●	1 pc
ME-XSKK-00KK00-K	XS 36-42 cm ●	1 pc
Code	Head Circumference	Pack
MEI-1KK-00KK00-K	I1 32-36 cm ●	1 pc
MEI-2KK-00KK00-K	I2 28-32 cm ●	1 pc
MEI-3KK-00KK00-K	I3 24-28 cm ●	1 pc

MultiCap Electrodes



Code	MultiCap System	Material	Pack
MF-17-A-26-S15	MultiCap FLAT	sintered Ag/AgCl	5 pcs
MD-17-C-26-S15	MultiCap DOC	Ag/AgCl	5 pcs
MP-17-C-26-S15	MultiCap PRO	sintered Ag/AgCl	5 pcs
ME-17-A-26-S15	MultiCap SOFT	sintered Ag/AgCl	5 pcs
MW-17-Z-26-S15	MultiCap SOFT	Zinn	5 pcs
MRI-17-A-26-S15	MultiCap MRI	sintered Ag/AgCl	5 pcs
MTES-22	MultiCap TES	Ag/AgCl	5 pcs
Touch Proof Ø 1,5 mm DIN 42802			

EEG / MultiCap Accessories

Chest Belt

· Chest belt for ideal fixing for each MultiCap model.

Code	Description	Pack
ME-3-L	Size L with belt buckle	1 pc
ME-3-S	Size S with belt buckle	1 pc
ME-3-SI	Size SI for infa with velcro fastener	1 pc



Chin Strap

· This chin strap takes care for a perfect fit at all MultiCaps

Code	Description	Pack
ME-23-L	Size L with velcro fastener	1 pc
ME-23-M	Size M with velcro fastener	1 pc
ME-23-S	Size S with velcro fastener	1 pc



Cable Tie (velcro)

· Velcro strap (cable tie) for easy fixing of electrode cable.

Code	Color	Pack
ME-13-S	black	1 pc



MultiCap Accessories / EEG



Cable Sheating

· To secure the Multicap electrode cables.

Code	Description	Pack
ME-14-10	Flexible Material - 100 cm	1 pc
ME-14-15	Flexible Material - 150 cm	1 pc
ME-14-20	Flexible Material - 200 cm	1 pc
ME-14-25	Flexible Material - 250 cm	1 pc

MultiCap Electrode

· Usable as a reference electrode.
· Available in different lengths and different connectors.

Code	Description	Pack
OHR-EM-H	Ear Holder Base	1 pair
OHR-EM-26	Ear Holder Base + sintered AgCl Electrode	1 pair
OHR-EM-F	Ear Holder Flat	1 pair
OHR-EM-26F	Ear Holder Flat + sintered AgCl Electrode	1 pair

Cable Length 150 cm

Touch Proof Ø 1,5 mm DIN 42802

Ear Clip Electrode

· Usable as a reference electrode.
· Available in different lengths and with different connectors.

Code	Electrode Material	Pack
EAR1026T0-2	Sn	1 pair
EAR1026AG-2	Ag/AgCl	1 pair
EAR1026S0-2	Sintered AgCl	1 pair
EAR1026G0-2	Au	1 pair

Cable Length 100 cm

Touch Proof Ø 1,5 mm DIN 42802

Holder for MultiCap

Code	Description	Pack
MWEF-20	for MultiCap Soft	10 pcs
MCE-20	for MultiCap Cup	10 pcs
ME-20	for MultiCap Base	10 pcs

Electrode holder ME-20 also available in black, white and red on request.

Head Measure Tape

· Special colour coded measure tape for MultiCaps.

Code	Description	Pack
ME-12	Length 205 cm	1 pc

EEG / Electrode Board Adapter

GVB-SPES offers a wide range of connectors for connection to all common EEG devices. We provide a great level of flexibility in order to meet our customers necessities.



Adapter

Code	N° TP Connector	Electrode Side	Headbox Side	Pack
CAPCAB2125F26SI	21	Sub-D-25	 Ø 1,5 mm	1 pc
CAPCAB2025F26SI	20	Sub-D-25	 Ø 1,5 mm	1 pc



Adapter

Code	N° Socket	Electrode Side	Headbox Side	Pack
CAPCAB212825SI	21	1,5 mm DIN socket	Sub-D-25	1 pc
CAPCAB202825SI	20	1,5 mm DIN socket	Sub-D-25	1 pc



Adapter

Code	N° TP Connector	Electrode Side	Headbox Side	Pack
CAPCAB2025F26	20	Sub-D-25	 Ø 1,5 mm	1 pc
CAPCAB2025F21	20	Sub-D-25	2 mm plug	1 pc
CAPCAB2125F26	21	Sub-D-25	 Ø 1,5 mm	1 pc
CAPCAB2125F21	21	Sub-D-25	2 mm plug	1 pc



Other adapter and connectors on request

To be used with
all types of
MultiCap



In order to make the electrodes trunks service-friendly, we have developed a connector that allows the user to replace or change individual electrodes, despite multiple connector.

This is made possible due to the fact that we do not solder the cable individually, but rather make it pluggable in the sub D connector.



SUB D Connector for 1 mm plug

- Easy to exchange the electrodes - no soldering necessary.
- For all electrode and cap variants.
- Free choice of the assignment of the connector.
- Cables are bundled in a self-closing protective jacket.

FLAT

Code	Material	Connector	Pack
MF-17-A-14251-S15	14 sintered Ag/AgCl Electrodes		1 pc
MF-17-A-20251-S15	20 sintered Ag/AgCl Electrodes		1 pc
MF-17-A-21251-S15	21 sintered Ag/AgCl Electrodes		1 pc
MF-17-A-17-S15	sintered Ag/AgCl Electrodes		5 pcs

DOC

Code	Material	Connector	Pack
MD-17-C-14251-S15	14 Ag/AgCl Electrodes		1 pc
MD-17-C-20251-S15	20 Ag/AgCl Electrodes		1 pc
MD-17-C-21251-S15	21 Ag/AgCl Electrodes		1 pc
MD-17-C-17-S15	Ag/AgCl Electrodes		5 pcs

CUP

Code	Material	Connector	Pack
MC-AU-14251-S15	14 sintered gold Electrodes		1 pc
MC-AU-20251-S15	20 sintered gold Electrodes		1 pc
MC-AU-21251-S15	21 sintered gold Electrodes		1 pc
MC-17-AU-17-S15	sintered gold Electrodes		5 pcs

SOFT

Code	Material	Connector	Pack
MW-17-Z-14251-S15	14 tin Electrodes		1 pc
MW-17-Z-20251-S15	20 tin Electrodes		1 pc
MW-17-Z-21251-S15	21 tin Electrodes		1 pc
MW-17-Z-17-S15	Tin Electrodes		5 pcs

BASE

Code	Material	Connector	Pack
ME-17-A-14251-S15	14 sintered Ag/AgCl Electrodes		1 pc
ME-17-A-20251-S15	20 sintered Ag/AgCl Electrodes		1 pc
ME-17-A-21251-S15	21 sintered Ag/AgCl Electrodes		1 pc
ME-17-A-17-S15	sintered Ag/AgCl Electrodes		5 pcs

Protective jacket

Code	Description	Pack
ME-14-10	Flexible Material - 100 cm	1 pc
ME-14-15	Flexible Material - 150 cm	1 pc
ME-14-20	Flexible Material - 200 cm	1 pc
ME-14-25	Flexible Material - 250 cm	1 pc



GVB-SPES offer a complete range of electrodes and accessories to be used during EEG, EP and ERG examinations.

All products have been developed to ensure maximum signal quality and patient comfort.

- Headcaps with Precabled Electrodes
 - Cerebral Function Monitoring
 - Netcaps
- Headcap Accessories

EEG / Material, Connectors and Cables

Material

The electrodes on our headcaps are made of:



Tin

Sn



Silver/Silver Chloride

Ag/AgCl



Sintered Silver/Silver Chloride

sintered Ag/AgCl



Gold

Au

Connectors

We offer a wide range of connectors. Please find below the standard versions:



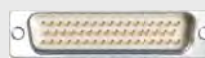
Touch Proof
DIN 42802



Sub-D 25



Sub-D 37



Sub-D 50



MDR



Further configurations are available according to your needs.

Cables

GVB-SPES provides three different cable configurations:

Flat cables



Twisted cables



Single cables

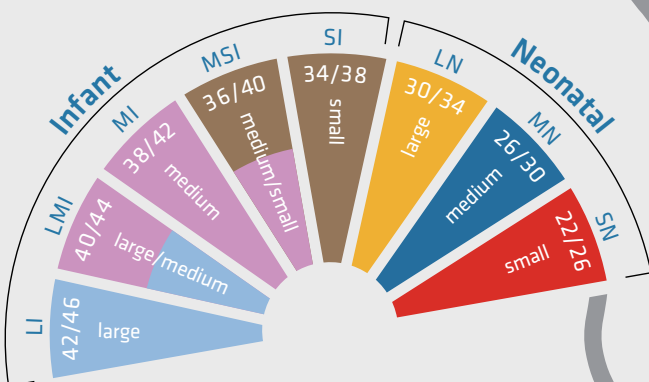
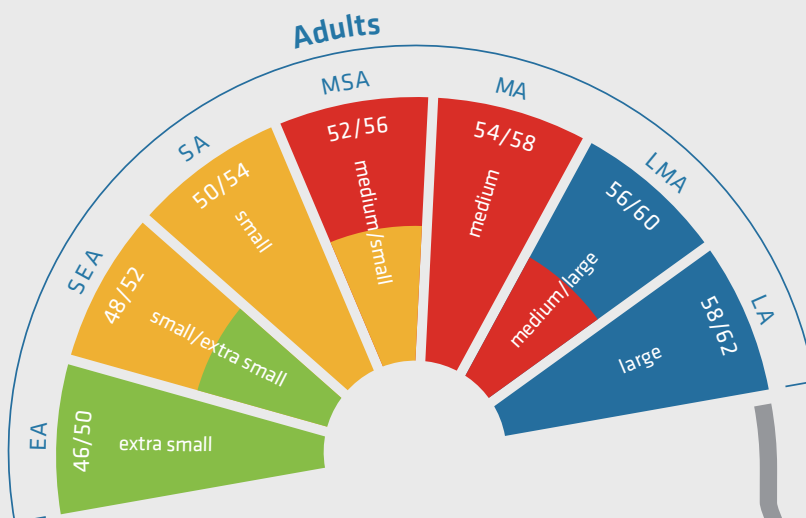


Sizes

We offer numerous headset sizes depending on your patients needs.

Adults

Adult headset sizes are available between 46 and 62 cm (head circumference diameter).



Infant and Neonatal

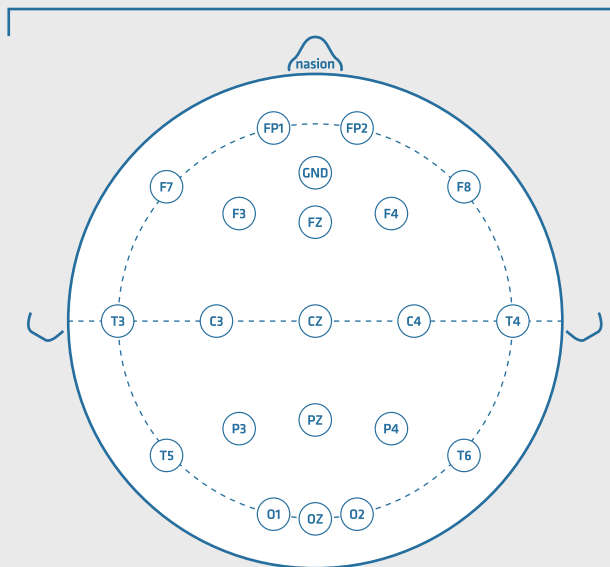
Pediatric and neonatal headset sizes are available in a range between 22 and 46 cm (head circumference diameter).



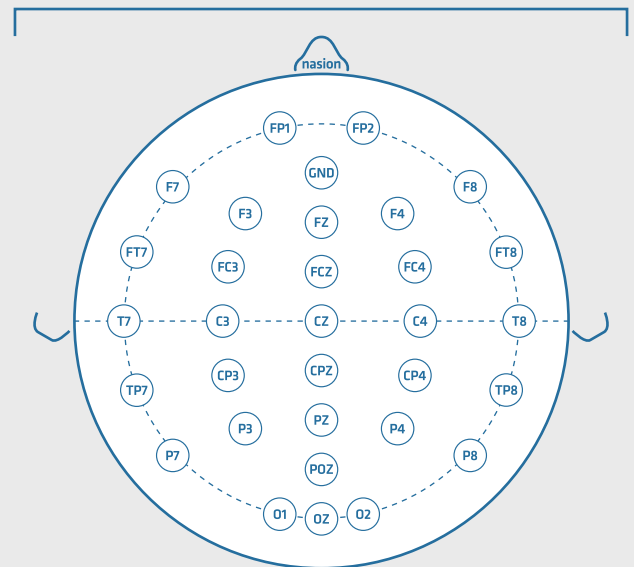
International 10-20 System

Our headcaps are made in accordance with the International 10-20 System. GVB-SPES offers the possibility to customize the electrode layout up to a 128-channel application.

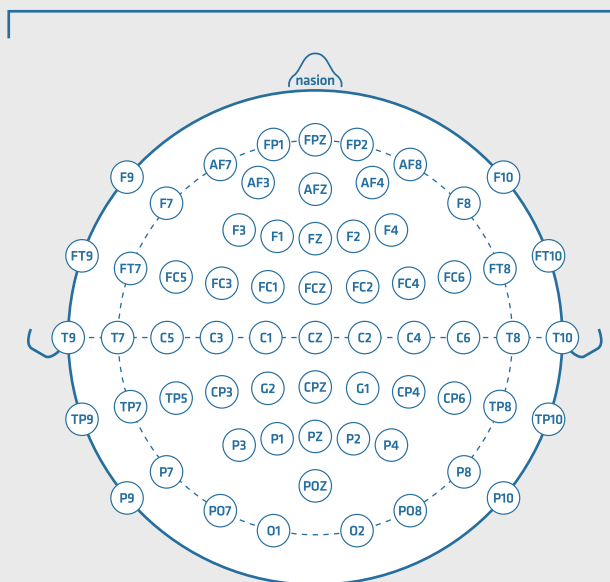
20 Electrodes Scheme



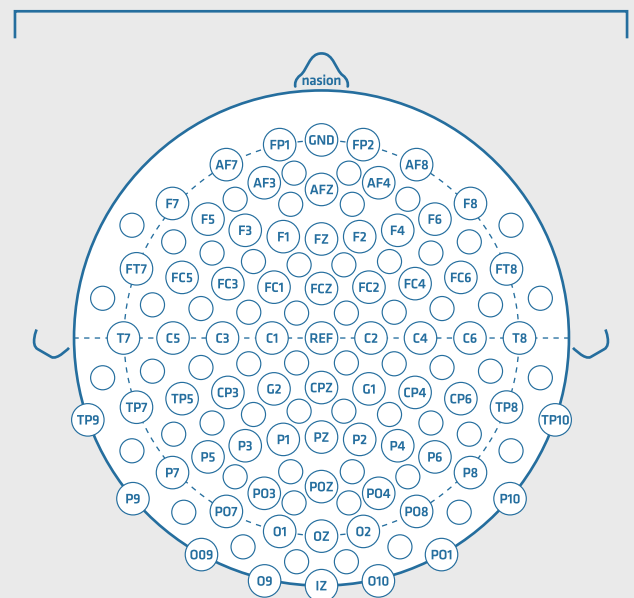
32 Electrodes Scheme



64 Electrodes Scheme

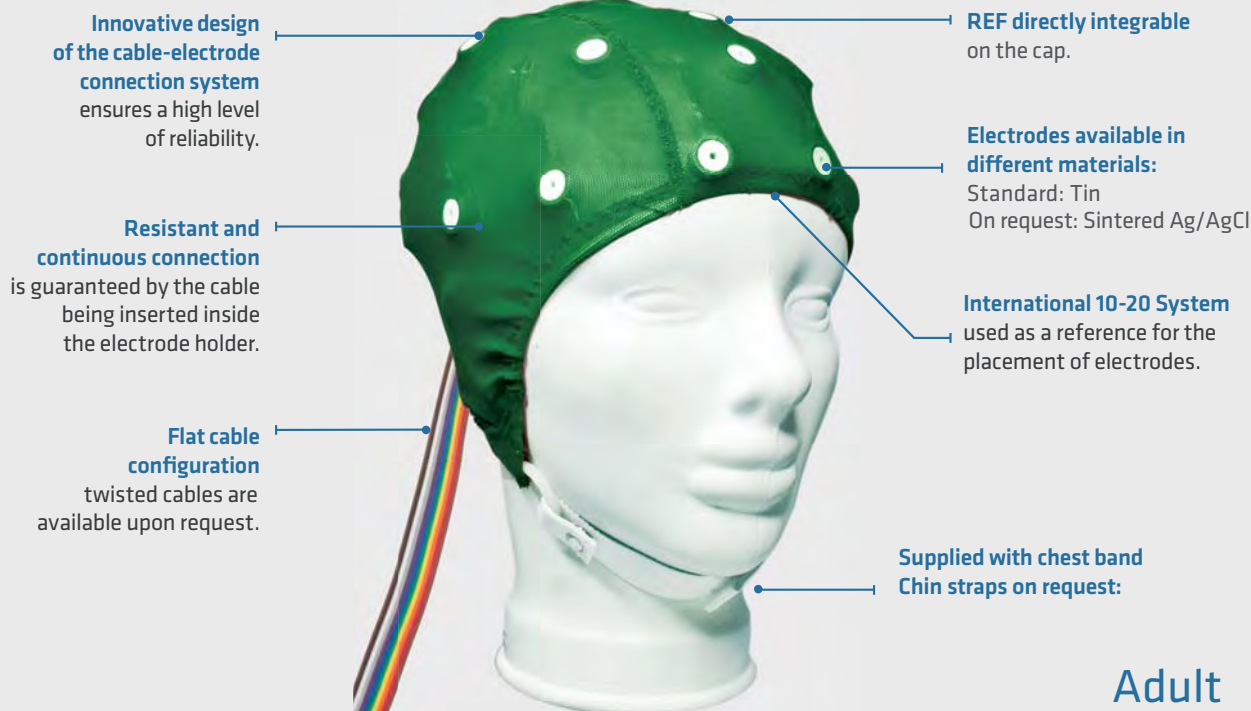


128 Electrodes Scheme



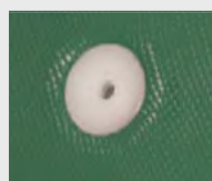
EEG / Headcaps with Prewired Electrodes

Medcap



Adult

External Electrode Detail



Internal Electrode Detail



Tin



Code	Head Circumference		N° Electrodes	Connectors	Pack
CAMSOLAA20	58-62 cm	●	19 + GND		1 pc
CAMSOLMAA20	56-60 cm	●●	19 + GND		1 pc
CAMSOMAA20	54-58 cm	●	19 + GND		1 pc
CAMSOMSAA20	52-56 cm	●●	19 + GND		1 pc
CAMSOSAA20	50-54 cm	●	19 + GND		1 pc
CAMSOSEAA20	48-52 cm	●●	19 + GND		1 pc
CAMSOEAA20	46-50 cm	●	19 + GND		1 pc
CAMSOLAA21	58-62 cm	●	19 + GND + REF		1 pc
CAMSOLMAA21	56-60 cm	●●	19 + GND + REF		1 pc
CAMSOMAA21	54-58 cm	●	19 + GND + REF		1 pc
CAMSOMSAA21	52-56 cm	●●	19 + GND + REF		1 pc
CAMSOSAA21	50-54 cm	●	19 + GND + REF		1 pc
CAMSOSEAA21	48-52 cm	●●	19 + GND + REF		1 pc
CAMSOEAA21	46-50 cm	●	19 + GND + REF		1 pc

Other electrode materials on request.

Headcaps with Prewired Electrodes / EEG

Flat Medcap

New

New flat electrode concept
allows a lower impedance area and
excellent patient comfort.

**Innovative design of the cable-
electrode connection system**
ensures a high level
of reliability.

**Resistant and
continuous connection**
is guaranteed by the cable
being inserted inside
the electrode holder.

**Flat cable
configuration**

REF directly integrable
on the cap.

**Electrodes available in
different materials:**
Standard: Tin
On request: Sintered Ag/AgCl

International 10-20 System
used as a reference for the
placement of electrodes.

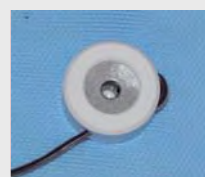
Supplied with chest band
Chin straps on request:

Infant

Tin

Internal Electrode Detail

External Electrode Detail



Code	Head Circumference	N° Electrodes	Connectors	Pack
CAMSOLIA20F	42-46 cm	19 + GND		1 pc
CAMSOLMIA20F	40-44 cm	19 + GND		1 pc
CAMSOMIA20F	38-42 cm	19 + GND		1 pc
CAMSOLIA10F	42-46 cm	9 + GND		1 pc
CAMSOLMIA10F	40-44 cm	9 + GND		1 pc
CAMSOMIA10F	38-42 cm	9 + GND		1 pc
CAMSOMSIA10F	36-40 cm	9 + GND		1 pc
CAMSOSIA10F	34-38 cm	9 + GND		1 pc
CAMSOLIA21F	42-46 cm	19 + GND + REF		1 pc
CAMSOLMIA21F	40-44 cm	19 + GND + REF		1 pc
CAMSOMIA21F	38-42 cm	19 + GND + REF		1 pc
CAMSOLIA14F	42-46 cm	13 + GND		1 pc
CAMSOLMIA14F	40-44 cm	13 + GND		1 pc
CAMSOMIA14F	38-42 cm	13 + GND		1 pc
CAMSOMSIA14F	36-40 cm	13 + GND		1 pc
CAMSOSIA14F	34-38 cm	13 + GND		1 pc

Other electrode materials on request.

EEG / Headcaps with Prewired Electrodes

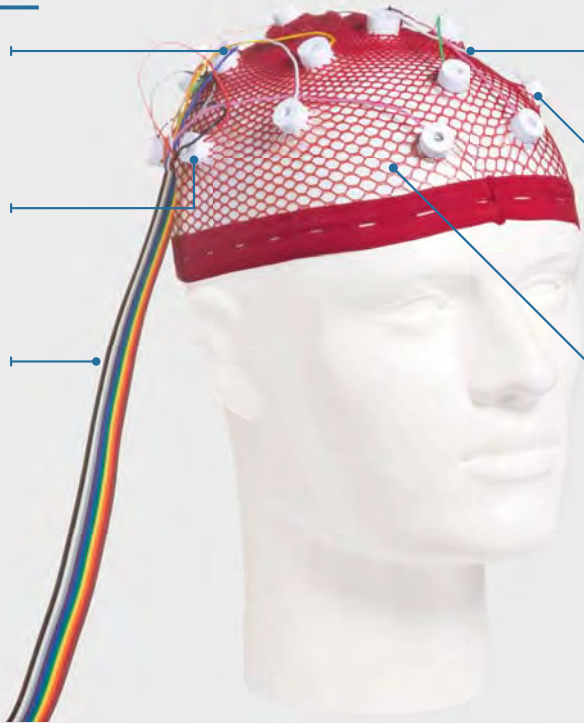
Disposable Dispacap

Update

REF electrode is included in the package available for any usage.

The electrode holder closing system allows for easy repositioning of the electrodes.

External flat cable configuration twisted inner cables are available upon request.



International 10-20 System used as reference for the placement of electrodes.

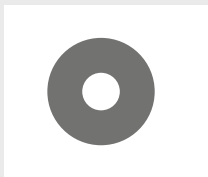
Electrodes available in Standard: Ag/AgCl On request: Tin

Single patient cap with large knitted net for optimal visual inspection of the patient skin.

Ag/AgCl

Internal Electrode Detail

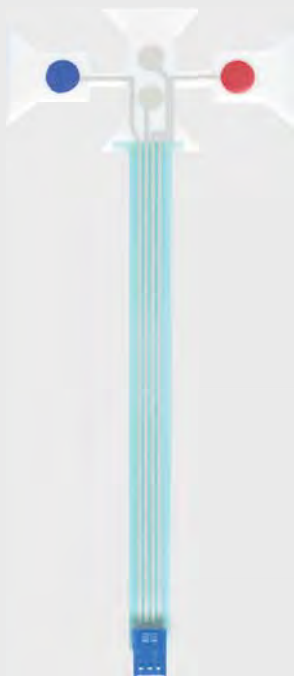
External Electrode Detail



Code	Head Circumference	N° Electrodes	Colour	Connectors	Pack
DCAPAGLAC20	Adult Large (56 - 64 cm)	20 + GND	blue		1 pc
DCAPAGMAC20	Adult Small (48 - 56 cm)	20 + GND	red		1 pc
DCAPAGSAC20	Pediatric Large (40 - 48 cm)	20 + GND	pink		1 pc
DCAPAGSIC14	Pediatric Small (32 - 40 cm)	13 + GND	brown		1 pc

Dispacaps with 1,5 mm DIN connector are also available on request. Other electrode materials, connector or configuration on request.

Cerebral Function Monitoring / EEG



Single patient CFM Electrode

- Excellent adhesion, lightweight, flexible and non-invasive.
- Electrode positions (C3 - C4 + REF - GND).
- Used in Neonatal Intensive Therapy Centers (NICU) to monitor neonatal encephalographic activity.

Code	N° Channels	Pack
CFM700000	2	4 pcs

CFM Electrodes with more channels are available on request.



Connection Cable for CFM Electrode

Code	Length	Connectors	Pack
CFMC15026	150 cm	 Touch Proof Ø 1,5 mm DIN 42802	1 pc

Connection cable for 4 channel recording available on request.

New

EEG / Headcaps Accessories

Chest Band

- Made with soft and elastic materials designed for excellent patient comfort.
- Equipped with press stud button for fast hooking with headcap ties.

Code	Size	Color Code	Pack
BELT0000120	120 cm		1 pc
BELT0000095	95 cm		1 pc
BELT0000070	70 cm		1 pc
BELT0000040	40 cm (Pediatric)		1 pc

Chin Holder

- Made with soft and elastic materials designed for excellent patient comfort.
- The package includes a pair of adjustable ties.

Code	Size	Pack
TIRCUFFMENTA	Set Adult	1 pc
TIRCUFFMENTP	Set Pediatric	1 pc
TIRCUFFMENTN	Set Neonatal	1 pc
MENTONIERA	Chin Protector Adult	1 pc
MENTONIERA-P	Chin Protector Pediatric	1 pc
TIRCUFF16	Adjustable ties	1 pc

Emergency Electrode

- Available in different connectors, materials and cable lengths.

Code	Electrode Material	Cable Length	Pack
EMELT12026	Sn	120 cm	1 pc

Disposable Blunt Needles

- Needles made of plastic and sterile needles made of steel that can be used for inserting the conductive gel into the prewired electrode housing.

Code	Material	Diameter	Length	Pack
DISP0001500	steel	1,60 mm (16G)	15 mm	100 pcs
DISP0001800	steel	1,60 mm (16G)	18 mm	100 pcs
DISP0002500	steel	1,60 mm (16G)	25 mm	100 pcs
E-8BK-GRÜN	plastic	1,20 mm (16G)	12 mm	50 pcs*
E-8BK-BRAUN	plastic	1,80 mm (16G)	12 mm	50 pcs*

* with syringe

Reusable Blunt Needles

Code	Material	Diameter	Length	Pack
53077	steel	1,60 mm (16G)	15 mm	1 pc

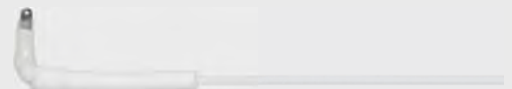
Syringe

- To use with blunt needles for filling gel.

Code	Description	Pack
E-7B	Luer Lock	100 pcs



Measure indicator



Electrode Board Adapter / EEG

GVB-SPES offer a wide range of connectors, touch proof safety connectors and others.
We provide a great level of flexibility in order to meet our customers necessities.



1,5 mm DIN plug



Sub-D-50



Sub-D-25



SUB-D-37



MDR-female



MDR-male

Adapter

Code	N° TP Connector	Electrode Side	Headbox Side	Pack
CAPCAB2125F26SI	21	Sub-D-25	 Ø 1,5 mm	1 pc
CAPCAB2025F26SI	20	Sub-D-25	 Ø 1,5 mm	1 pc



Adapter

Code	N° Socket	Electrode Side	Headbox Side	Pack
CAPCAB2128SI	21	1,5 mm DIN socket	Sub-D-25	1 pc
CAPCAB2028SI	20	1,5 mm DIN socket	Sub-D-25	1 pc



Adapter

Code	N° TP Connector	Electrode Side	Headbox Side	Pack
CAPCAB2025F26	20	Sub-D-25	 Ø 1,5 mm	1 pc
CAPCAB2025F21	20	Sub-D-25	2 mm plug	1 pc
CAPCAB2125F26	21	Sub-D-25	 Ø 1,5 mm	1 pc
CAPCAB2125F21	21	Sub-D-25	2 mm plug	1 pc



Other adapter and connectors on request



Silicon Caps

In addition to the Headcaps with prewired electrodes, we also offer you our proven Silicon Caps. These can be used with bridges or fungus electrodes. You will also find your accessories in this chapter.

- Schröter Caps
 - Silicon Caps
- Bridge Electrodes
 - Accessories

EEG / Silicon Headcaps

Schröter EEG Caps for Bridge Electrodes

- The 10/20 system is already pre-set for Schröter caps .
- Made of soft, elastic, transparent and wear-resistant materials.
- Chin holder and ear pads are included in the package.
- The caps are also single colour available. In case of single colour is required, use the code for transparent cap and add the letter for the colour. G (green), R (red), B (blue), Y (yellow): for example S-HAUBE-20G for green Schröter cap size 20

Code transparent	Code multi colour	Circumference	Pack
S-HAUBE-16	S-HAUBE-16-F	16 cm	1 pc
S-HAUBE-18	S-HAUBE-18-F	18 cm	1 pc
S-HAUBE-20	S-HAUBE-20-F	20 cm	1 pc
S-HAUBE-22	S-HAUBE-22-F	22 cm	1 pc
S-HAUBE-24	S-HAUBE-24-F	24 cm	1 pc
S-HAUBE-26	S-HAUBE-26-F	26 cm	1 pc
S-HAUBE-28	S-HAUBE-28-F	28 cm	1 pc
S-HAUBE-30	S-HAUBE-30-F	30 cm	1 pc
S-HAUBE-32	S-HAUBE-32-F	32 cm	1 pc
S-HAUBE-34	S-HAUBE-34-F	34 cm	1 pc
S-HAUBE-36	S-HAUBE-36-F	36 cm	1 pc
S-HAUBE-38	S-HAUBE-38-F	38 cm	1 pc
S-HAUBE-40	S-HAUBE-40-F	40 cm	1 pc

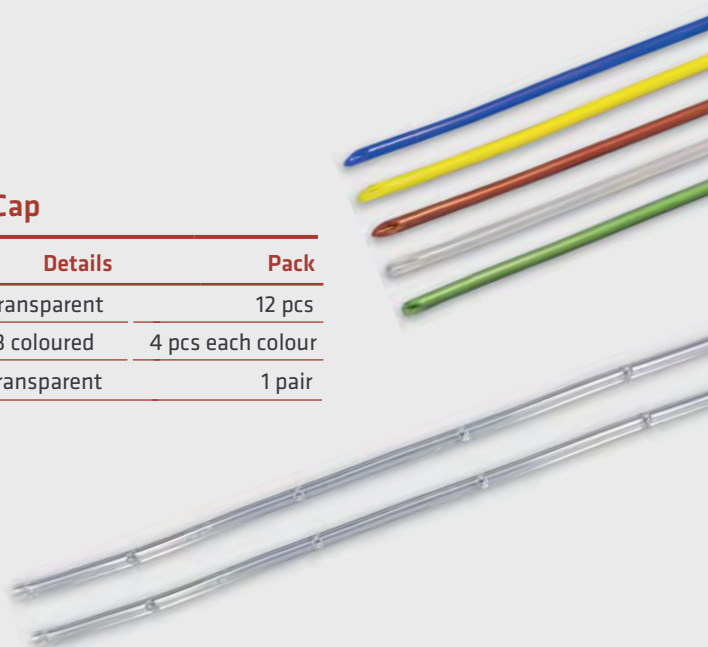
For hygienic caps with closed tubes please replace the „S“ through „H“ in the code



Spare Bracing Tubes for Schröter EEG Cap

Code	Description	Details	Pack
2345	Cross tube 45 cm	Transparent	12 pcs
2345-F	Cross tube 45 cm	3 coloured	4 pcs each colour
25XX-6-LR	Longitudinal bracing	Transparent	1 pair

xx = cap size (e.g. 34)



EEG Cap GVB



- Longitudinal braces which are connected to the cross bracing at the crossover points by rubber rings.
- All parts can be supplied as individual parts.

Code	Description	Size	Pack
S-HAUBE-G	Transparent cap	Large	1 pc
S-HAUBE-G-F	Multi coloured cap	Large	1 pc
S-HAUBE-M	Transparent cap	Medium	1 pc
S-HAUBE-M-F	Multi coloured cap	Medium	1 pc
S-HAUBE-K	Transparent cap	Small	1 pc
S-HAUBE-K-F	Multi coloured cap	Small	1 pc
2345	Cross bracing	One Size	12 pc
2534-2-LR	Longitudinal bracing	Large	1 pair
2530-2-LR	Longitudinal bracing	Medium	1 pair
2526-2-LR	Longitudinal bracing	Small	1 pair



Head Band Cap - Neonatal Cap

- The head band cap makes it possible to tailor your EEG cap to individual requirements.
- You need the short or long buttons to join the individual head bands to one another.
- The head band cap can be used exclusively with fungus electrodes and/or Z-electrodes.

Code	Details	Description	Pack
2285	Head Band	for extension	5 pcs
2280	Forehead Band	70 cm	1 pc
2402	Attachment buttons	Long thorn	1 pair
2402-SET	Attachment buttons	Long thorn	10 pcs
2401	Attachment buttons	Short thorn	1 pair
2401-SET	Attachment buttons	Short thorn	10 pcs

EEG / Silicon Headcaps

EEG Cap Vario

- Vario caps can be accurately adjusted because of their dual connection points and adjustable straps. The chin guard has been made of soft neoprene material.
- All parts can be supplied as individual parts.

Code	Description	Size	Pack
HEAD0R4L	4 longitudinal bracings	Large	1 pc
HEAD0R2L	2 longitudinal bracings	Large	1 pc
HEAD0V4M	4 longitudinal bracings	Medium	1 pc
HEAD0V2M	2 longitudinal bracings	Medium	1 pc
HEAD0B4S	4 longitudinal bracings	Small	1 pc
HEAD0B2S	2 longitudinal bracings	Small	1 pc
MENTONIERA	Chin protector	Adult	1 pc
MENTONIERA-P	Chin protector	Child	1 pc
TIRCUFFMENTA	Chin strap + Chin protector	Adult	1 pair
TIRCUFFMENTP	Chin strap + Chin protector	Child	1 pair
TIRCUFFMENTN	Chin protector	Neonatal	1 pc
TIRCUFF16	Chin strap	Adult & Child	1 pair



Bridge Electrodes

- The gilded pin guarantees high signal quality and prevents corrosion.
- Screw system suitable for correct positioning of the electrode on the skin.
- Universal connector suitable for 2 mm spring pin and crocodile clip.
- Bridge made of ABS plastic material.

Code	Electrode Material	Size	Bridge Color	Pack
BEAG00A2	Ag/AgCl	Adult	●	10 pcs
BEAG00A7	Ag/AgCl	Adult	●	10 pcs
BEAG00P4	Ag/AgCl	Pediatric	●	10 pcs
BEG000A2	Sintered Ag/AgCl	Adult	●	10 pcs
BEG000A7	Sintered Ag/AgCl	Adult	●	10 pcs
BEG000P4	Sintered Ag/AgCl	Pediatric	●	10 pcs
BEAG00A2-H	Ag/AgCl	Adult	●	5 pcs
BEAG00A7-H	Ag/AgCl	Adult	●	5 pcs
BEAG00P4-H	Ag/AgCl	Pediatric	●	5 pcs
BEG000A2-H	Sintered Ag/AgCl	Adult	●	5 pcs
BEG000A7-H	Sintered Ag/AgCl	Adult	●	5 pcs
BEG000P4-H	Sintered Ag/AgCl	Pediatric	●	5 pcs



Bridge Electrodes / EEG



Bridge Electrodes

- With silver push pin.
- Push system suitable for correct positioning of the electrode on the skin.
- Universal connector suitable for 2 mm spring pin and crocodile clip.
- Bridge made of ABS plastic material.

Code	Electrode Material	Size	Bridge Color	Pack
BESW000A2	sintered Ag/AgCl	Adult	●	10 pcs
BESW000A2-H	sintered Ag/AgCl	Adult	●	5 pcs
BESW000P2	sintered Ag/AgCl	Child	●	10 pcs
BESW000P2-H	sintered Ag/AgCl	Child	●	5 pcs



Assembling Kit for Bridge Electrodes

Code	Description	Pack
BCSET000	100 x Cotton pads 28 mm, 100 x rubber rings 8,5 mm 1 covering tool	1 pu



Bridge Electrode Bowl

Code	Description	Pack
1323000101	Bridge Electrode Bowl for 0,5 l content	1 pc

EEG / Silicon Caps Accessories

Replacement Attachment Buttons

· For all silicon and headband caps.

Code	Description	Pack
2401	Short thorn	1 pair
2401-SET	Short thorn	10 pcs
2402	Long thorn	1 pair
2402-SET	Long thorn	10 pcs



Replacement Chin Straps

· For all silicon caps.

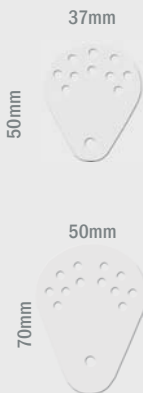
Code	Size	Pack
2220	Length 20 cm, 2 cm wide	1 pc
2240	Length 40 cm, 2 cm wide	1 pc
2260	Length by the metre, 2 cm wide	by the metre



Replacement Ear Fixing

· For all silicon caps.

Code	Description	Pack
2101	37 mm x 50 mm	1 pc
2102	50 mm x 70 mm	1 pc



Silicon Caps Accessories / EEG



Z Electrodes

- Z Electrodes are used exclusively in conjunction with head band caps.
- Electrodes material is sintered Ag/AgCl.
- The recording area of the electrodes is 10 mm.
- The 2 mm connecting cable can be used vertically to the electrodes.

Code	Electrode Material	Color	Pack
ZELEK-R	sintered Ag/AgCl	●	10 pcs
ZELEK	sintered Ag/AgCl	●	10 pcs
ZELEK-R-H	sintered Ag/AgCl	●	5 pcs
ZELEK-H	sintered Ag/AgCl	●	5 pcs



Fungus Electrodes

- Sintered fungus electrode with silver pin for head band caps.
- Electrodes material is sintered Ag/AgCl.
- The recording area of the electrodes is 10 mm.
- The 2 mm connecting cable can be used both vertically and horizontally to the electrodes.

Code	Electrode Material	Color	Pack
BESW00000-H	sintered Ag/AgCl	●	5 pcs
BESW00000	sintered Ag/AgCl	●	10 pcs



Cotton Pad Set

- Cotton pads and rubber rings (O-rings).
- To make the assembly on the corresponding electrodes simplify.
- We recommend our assembly cone.

Code	Description	Pack
BEZUG-26-0	26 mm / 6,8 mm - for electrode NKBE-0005	100/100 pcs
BEZUG-28-0	28 mm / 8,5 mm - for bridge and fungus electrodes	100/100 pcs
BEZUG-30-0	30 mm / 6,8 mm - for bridge and fungus electrodes	100/100 pcs
BEZUG-32-0	32 mm / 8,5 mm - for bridge and fungus electrodes	100/100 pcs
BEZUG-32-0Z	32 mm / 10 mm - for Z electrodes	100/100 pcs

EEG / Silicon Caps Accessories

Cotton Pad Set

- You can order cotton pads for bridge, fungus and Z-electrodes without O-rings.
- However, to fit a pad to an electrode, the corresponding O-ring is required.

Code	Diameter	Pack
BEZUG-26	26 mm	100 pcs
BEZUG-28	28 mm	100 pcs
BEZUG-30	30 mm	100 pcs
BEZUG-32	32 mm	100 pcs
BEZUG-26-2	26 mm	50 pcs
BEZUG-28-2	28 mm	50 pcs
BEZUG-30-2	30 mm	50 pcs
BEZUG-32-2	32 mm	50 pcs



O-Rings

- For fixing of cotton pads on bridge, fungus and Z-electrodes

Code	Diameter	Pack
O-RING-68	6,8 mm	100 pcs
O-RING-78	7,8 mm	100 pcs
O-RING-85	8,5 mm	100 pcs
O-RING-100	10,0 mm	100 pcs
O-RING-68-2	6,8 mm	50 pcs
O-RING-78-2	7,8 mm	50 pcs
O-RING-85-2	8,5 mm	50 pcs
O-RING-100-2	10,0 mm	50 pcs



Fitting Cone

- Fitting cone enables O-rings and coverings to be easily assembled on the corresponding electrodes.

Code	Description	Pack
PVINS	white - for 14 mm electrode sizes	1 pc
MON-16	black - for 16 mm electrode sizes	1 pc



Ear Electrodes / EEG



Ear Clip Electrode

- Usable as a reference electrode.
- Available in different lengths and with different connectors.

Code	Electrode Material	Pack
EAR1026T0-2	Sn	1 pair
EAR1026AG-2	Ag/AgCl	1 pair
EAR1026S0-2	Sintered Ag/AgCl	1 pair
EAR1026G0-2	Au	1 pair
Cable Length 100 cm		
Touch Proof Ø 1,5 mm DIN 42802		



Multi Cap Electrode

- Usable as a reference electrode.
- Available in different lengths and with different connectors.

Code	Description	Pack
OHR-EM-H	Ear Holder Base	1 pair
OHR-EM-26	Ear Holder Base + sintered Ag/AgCl Electrode	1 pair
OHR-EM-F	Ear Holder Flat	1 pair
OHR-EM-26F	Ear Holder Flat + sintered Ag/AgCl Electrode	1 pair
Cable Length 150 cm		
Touch Proof Ø 1,5 mm DIN 42802		



Chinagraph Pencils

- For marking electrode positions.

Code	Color	Pack
B0012-1	Red	1 pc
B0012-2	Blue	1 pc
B0012-3	Black	1 pc
B0012-4	Yellow	1 pc
B0012-1-S	Red	12 pcs
B0012-2-S	Blue	12 pcs
B0012-3-S	Black	12 pcs
B0012-4-S	Yellow	12 pcs



EEG / Silicon Cap Accessories

Clamp Electrodes

- Recording area made of tin.
- For adult and children.
- Metallic.

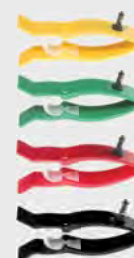
Code	Description	Pack
CLTI00BRM	Adult - black and red	1 pair
CLTIPOBRM	Children- black and red	1 pair



Clamp Electrodes

- Recording area made of AgCl.
- For adult and children.

Code	Description	Pack
CLAG0000M	Three piece - metallic - adult	4 pcs
CLAGP000M	Three piece - metallic - children	4 pcs



Bridge Electrodes Box

- For disinfection of bridges, fungus and Z-electrodes.

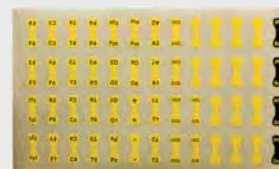
Code	Description	Pack
BE-BOX	with removable tub	1 pc



Cable Label

- Labels with different lettering to mark the individual cables.

Code	Description	Pack
ME-KP-SET	52 Labels	1 pc



Head Measure Tape

- To determine the head circumference.

Code	Description	Pack
ME-12-GVB	Length 205 cm	1 pc
ME-12	Length 143 cm	1 pc



Silicon Caps Accessories / EEG



Storage for Caps

· Storage or drying after cleaning.

Code	Description	Pack
SPAHR02	Glass Head - Circumference 57 cm	1 pc
SPAHR03	Styrofoam - Circumference 54 cm	1 pc
SPAHR04	Styrofoam - Circumference 58 cm	1 pc
SPAHR05	Bust - Circumference 58 cm	1 pc

Drying for Caps

· Drying after cleaning.

Code	Description	Pack
SPAHR01	Plug system	1 pc

Ivory

· Lotion for cleaning the EEG headcap.

Code	Description	Package	Pack
E-16-F	Emulsion	Bottle 700 ml	1 pc

Cleaning

Code	Description	Pack
E-26	Wooden sticks - flat and pointed side	100 pcs
PUL0000025	Cleaning brushes - Synthetic fibres	25 pcs
SWAPS	Cotton buds - extra long handle	100 pcs

NEURO.CUP.

CUP-ELEKTRODEN
EEG EMG EP

NEURO.TAB.

ADHESIVE SURFACE ELECTRODE
ECG EEG EMG EP IOM



Evoked Potentials

GVB-SPES offer a complete range of electrodes for evoked potential examinations.

All products have been developed to ensure maximum signal quality and patient comfort.

- Cup Electrodes
- Adhesive Electrodes
- Subdermal Needle Electrodes

EP / Cup Electrodes

- Carrier material is made of pure Ag 999.99 ‰ for the highest recorded signal quality.
- The Touchproof Connectors ensure a stable long-term connection to any type of equipment.
- The cable guarantees maximum resistance and flexibility.

Stamped-Adult

- Moulded cable-electrode connection ensures high mechanical strength during use.
- Available material: Silver Silver Chloride (Ag/AgCl), Gold (Au) and Silver (Ag).

Code	Material	Cup Diameter	Cable Length	Pack
DAGM052600	Ag/AgCl	10 mm	50 cm	10 pcs
DAGM102600	Ag/AgCl	10 mm	100 cm	10 pcs
DAGM152600	Ag/AgCl	10 mm	150 cm	10 pcs
DAGM252600	Ag/AgCl	10 mm	250 cm	10 pcs
DEGM052600	Au	10 mm	50 cm	10 pcs
DEGM102600	Au	10 mm	100 cm	10 pcs
DEGM152600	Au	10 mm	150 cm	10 pcs
DEGM252600	Au	10 mm	250 cm	10 pcs
DESM052600	Ag	10 mm	50 cm	10 pcs
DESM102600	Ag	10 mm	100 cm	10 pcs
DESM152600	Ag	10 mm	150 cm	10 pcs
DESM252600	Ag	10 mm	250 cm	10 pcs

 Touch Proof Ø 1,5 mm DIN 42802

Pack of 10 cup electrodes are available in the following colors:



Stamped-Pediatric

- Designed for pediatric patients.
- Reduced diameter of electrode to allow recording in more focused areas.
- Available material Silver Silver Chloride (Ag/AgCl), Gold (Au) and Silver (Ag).

Code	Material	Cup Diameter	Cable Length	Pack
DAGS052606	Ag/AgCl	6 mm	50 cm	10 pcs
DAGS102606	Ag/AgCl	6 mm	100 cm	10 pcs
DAGS152606	Ag/AgCl	6 mm	150 cm	10 pcs
DAGS252606	Ag/AgCl	6 mm	250 cm	10 pcs
DEGS052606	Au	6 mm	50 cm	10 pcs
DEGS102606	Au	6 mm	100 cm	10 pcs
DEGS152606	Au	6 mm	150 cm	10 pcs
DEGS252606	Au	6 mm	250 cm	10 pcs
DESS052606	Ag	6 mm	50 cm	10 pcs
DESS102606	Ag	6 mm	100 cm	10 pcs
DESS152606	Ag	6 mm	150 cm	10 pcs
DESS252606	Ag	6 mm	250 cm	10 pcs

 Touch Proof Ø 1,5 mm DIN 42802

Pack of 10 cup electrodes are available in the following colors:



Cup Electrodes / EP

Pack of 10 cup electrodes are available in the following colors:



Pack of 10 cup electrodes are available in the following colors:



Casted

- Ideal cable-electrode connection to avoid corrosion at the junction.
- Autoclavable electrode (available in non-autoclavable version on request).
- Extremely flexible silicone cable.
- Available material Silver Silver Chloride (Ag/AgCl), Gold (Au) and Silver (Ag).

Code	Material	Cup Diameter	Cable Length	Pack
DSCSAS102600	Ag/AgCl	10 mm	100 cm	10 pcs
DSCSAS152600	Ag/AgCl	10 mm	150 cm	10 pcs
DSCSAS252600	Ag/AgCl	10 mm	250 cm	10 pcs
DSGSAS102600	Au	10 mm	100 cm	10 pcs
DSGSAS152600	Au	10 mm	150 cm	10 pcs
DSGSAS252600	Au	10 mm	250 cm	10 pcs
DSSSAS102600	Ag	10 mm	100 cm	10 pcs
DSSSAS152600	Ag	10 mm	150 cm	10 pcs
DSSSAS252600	Ag	10 mm	250 cm	10 pcs

Touch Proof Ø 1,5 mm DIN 42802

LTM (Long Term Monitoring)

- Specific concept designed to ensure long-term recordings.
- Ultra-thin Teflon cable.
- Autoclavable electrode.
- Available material Silver Silver Chloride (Ag/AgCl) and Gold (Au).

Code	Material	Cup Diameter	Cable Length	Pack
DGAGAT032600	Ag/AgCl	10 mm	30 cm	10 pcs
DGAGAT062600	Ag/AgCl	10 mm	60 cm	10 pcs
DGAGAT0752600	Ag/AgCl	10 mm	75 cm	10 pcs
DGAGAT122600	Ag/AgCl	10 mm	120 cm	10 pcs
DGAGAT152600	Ag/AgCl	10 mm	150 cm	10 pcs
DGAGAT182600	Ag/AgCl	10 mm	180 cm	10 pcs
DGAGAT202600	Ag/AgCl	10 mm	200 cm	10 pcs
DGAGAT242600	Ag/AgCl	10 mm	240 cm	10 pcs
DGAGAT302600	Ag/AgCl	10 mm	300 cm	10 pcs
DGGOAT032600	Au	10 mm	30 cm	10 pcs
DGGOAT062600	Au	10 mm	60 cm	10 pcs
DGGOAT0752600	Au	10 mm	75 cm	10 pcs
DGGOAT122600	Au	10 mm	120 cm	10 pcs
DGGOAT152600	Au	10 mm	150 cm	10 pcs
DGGOAT182600	Au	10 mm	180 cm	10 pcs
DGGOAT202600	Au	10 mm	200 cm	10 pcs
DGGOAT242600	Au	10 mm	240 cm	10 pcs
DGGOAT302600	Au	10 mm	300 cm	10 pcs

Touch Proof Ø 1,5 mm DIN 42802

EP / Cup Electrodes

Spider

- The design of the net provides a better contact surface and ensures high mechanical strength during use.
- Available in adult and pediatric versions.
- Available material Silver Silver Chloride (Ag/AgCl) and Gold (Au).

Code	Material	Cup Diameter	Cable Length	Pack
SPIDER101026	Ag/AgCl	10 mm	100 cm	10 pcs
SPIDER151026	Ag/AgCl	10 mm	150 cm	10 pcs
SPIDER251026	Ag/AgCl	10 mm	250 cm	10 pcs
SPIDER101026G	Au	10 mm	100 cm	10 pcs
SPIDER151026G	Au	10 mm	150 cm	10 pcs
SPIDER151026G	Au	10 mm	250 cm	10 pcs
SPIDER100626	Ag/AgCl	6 mm	100 cm	10 pcs
SPIDER150626	Ag/AgCl	6 mm	150 cm	10 pcs
SPIDER250626	Ag/AgCl	6 mm	250 cm	10 pcs
SPIDER100626G	Au	6 mm	100 cm	10 pcs
SPIDER150626G	Au	6 mm	150 cm	10 pcs
SPIDER250626G	Au	6 mm	250 cm	10 pcs

 Touch Proof Ø 1,5 mm DIN 42802

Pack of 10 cup electrodes are available in the following colors:



Pediatric Version



Sintered Electrodes

- Consists of a sintered disk moulded in an insulating material.
- Excellent signal quality guaranteed by the low impedance of the material.
- Made to ensure long-lasting recordings.
- Available material sintered Silver Silver Chloride (sintered Ag/AgCl).

Code	Electrode Material	Cup Diameter	Length	Pack
Q52-426-B	sintered Ag/AgCl	6 mm	100 cm	1 pair
Q52-626-B	sintered Ag/AgCl	6 mm	150 cm	1 pair
Q52-826-B	sintered Ag/AgCl	6 mm	250 cm	1 pair

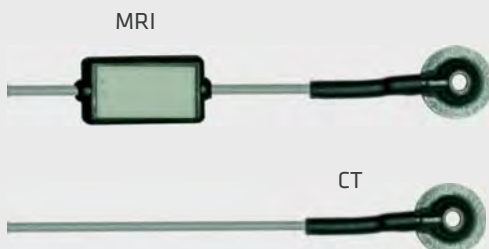
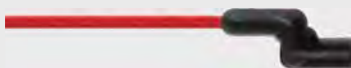
 Touch Proof Ø 1,5 mm DIN 42802



Ø 6 mm / 14 mm

Cup Electrodes / EP

Pack of 10 cup electrodes are available in the following colors



Disposable Electrodes

- Available in single-use integrated cable or reusable detachable cable.
- Highly practical due to lightweight materials.
- Best signal recording due to Ag/AgCl surface.
- Available material Silver Silver Chloride (Ag/AgCl).

Code	Electrode Material	Cup Diameter	Cable Length	Box
DAGD102600	Ag/AgCl	10 mm	100 cm	1 pack/10 pcs
DAGD152600	Ag/AgCl	10 mm	150 cm	1 pack/10 pcs
DAGD252600	Ag/AgCl	10 mm	250 cm	1 pack/10 pcs

 Touch Proof Ø 1,5 mm DIN 42802

Disposable Cup Electrodes

Code	Electrode Material	Cup Diameter	Cable Length	Pack
DAGD00000	Ag/AgCl	10 mm	/	500 pcs

Cable for Disposable Cup Electrodes

Code	Cable Length	Connectors	Pack
DECS102600	100 cm	 Ø 1,5 mm	10 pcs
DECS152600	150 cm	 Ø 1,5 mm	10 pcs
DECS252600	250 cm	 Ø 1,5 mm	10 pcs

Disposable MRI and CT Electrodes

- The electrodes can be used in MRI or CT diagnostic techniques.
- Available material Silver Silver Chloride (Ag/AgCl).

Code	Material	Cup Diameter	Cable Length	Pack
DAGR102600MRI	Ag/AgCl	10 mm	100 cm	1 pcs
DAGR152600MRI	Ag/AgCl	10 mm	150 cm	1 pcs
DAGR202600MRI	Ag/AgCl	10 mm	200 cm	1 pcs
DAGR102600	Ag/AgCl	10 mm	100 cm	10 pcs
DAGR152600	Ag/AgCl	10 mm	150 cm	10 pcs
DAGR202600	Ag/AgCl	10 mm	200 cm	10 pcs

 Touch Proof Ø 1,5 mm DIN 42802

EP / Cup Electrodes

Disposable Electrodes Compatible for MRI



- Designed for safe magnetic resonance imaging.
- The multipole connector eliminates removal of electrodes from patients skin.
- To be used with connection cable.

Code	Electrode Material	N° Electrodes	Cup Diameter	Pack
DCCCCPE-21	AgAgCl (disposable)	21	10 mm	1 set
DCCCCPE-23	AgAgCl (disposable)	23	10 mm	1 set
DCCCCPE-25	AgAgCl (disposable)	25	10 mm	1 set



Disposable version

Reusable Electrodes Compatible for MRI



Code	Electrode Material	N° Electrodes	Cup Diameter	Pack
DGGGOGCE-21	Au (reusable)	21	10 mm	1 set
DGGGOGCE-23	Au (reusable)	23	10 mm	1 set
DGGGOGCE-25	Au (reusable)	25	10 mm	1 set



Reusable version

Connecting Cable

Code	N° of Contacts	Pack
BECHAR-21	21	1 pc
BECHAR-23	23	1 pc
BECHAR-25	25	1 pc
Cable Length 100 cm		
 Touch Proof Ø 1,5 mm DIN 42802		



Cup Electrodes Accessories / EP



Compressor and Applicator

- The compressed electrode-applicator was specifically constructed for serving of COLLODION or other similar custody materials with EEG-electrodes.
- Their interchangeable tip fits precisely into the electrode-opening.
- The compressed air-pistol was developed for the work with low pressure (maximum 0,6 Bar/10 PSI admittance-atmospheric pressure) develops.

Code	Description	Pack
B0007	Applicator	1 pc
B0113	Replacement Tip	1 pc
B0007-05-250	Replacement Tube - 2,5 meter	1 pc



B0112	Compressor + Applicator + 2,5 m Tube	1 set
B0112-G	Compressor with Housing + Applicator + 2,5 m Tube	1 set
B0115	Compressor with On/Off Rocker Switch	1 set
B0115-G	Compressor with Housing and On/Off Rocker Switch	1 set
B0116	Housing	1 pc
B0117	On/Off Rocker Switch	1 pc
463022400	Coupler Tube	1 pc
463121200	Coupler Device	1 pc

Foot Switch



- Footswitch to turn the compressor on and off.

2410-1001	Foot Switch for Compressor	1 pc
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Dual side adhesive rings

- Dual side adhesive rings secure the adhesion for longer periods.



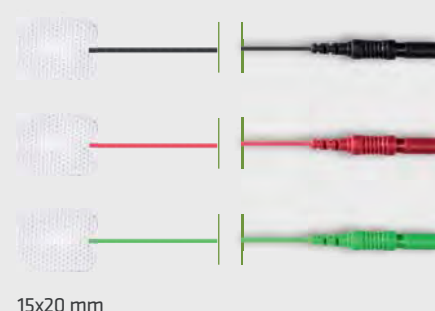
Code	Outer Diameter / Internal Diameter	Content	Pack
T-01	40 mm / 16 mm	500 rings	1 pc
T-02	30 mm / 10 mm	500 rings	1 pc
T-03	20 mm / 8 mm	500 rings	1 pc
T-04	20 mm / 9,5 mm	500 rings	1 pc
T-05	30 mm / 15 mm	500 rings	1 pc
T-06	13 mm / 5 mm	500 rings	1 pc
T-08	20 mm / 5 mm	500 rings	1 pc
T-09	25 mm / 11 mm	500 rings	1 pc

EP / Adhesive Electrodes

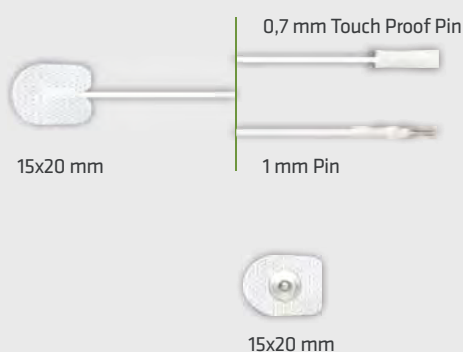
Adhesive Electrodes

- Hydrogel guarantees excellent adhesion and repositioning even at different times.
- High quality recordings due to low impedance.
- Indicated for long-term testing.
- Hydrogel consists of biocompatible materials that has been tested on the most delicate skin types.
- Available in different shapes and sizes to allow ideal recordings.
- Material of the following adhesive electrodes (page 79-81) is Ag/AgCl.

Code	Size	Connectors	Cable Length	Box
DENIS01526	15x20 mm	 Ø 1,5 mm	15 cm	20 pack/120 pcs
DENIS10026	15x20 mm	 Ø 1,5 mm	100 cm	20 pack/120 pcs
DENIS15026	15x20 mm	 Ø 1,5 mm	150 cm	20 pack/120 pcs
DENIS25026	15x20 mm	 Ø 1,5 mm	250 cm	20 pack/120 pcs
DENIS01526-H	15x20 mm	 Ø 1,5 mm	15 cm	10 pack/ 60 pcs
DENIS10026-H	15x20 mm	 Ø 1,5 mm	100 cm	10 pack/ 60 pcs
DENIS15026-H	15x20 mm	 Ø 1,5 mm	150 cm	10 pack/ 60 pcs
DENIS25026-H	15x20 mm	 Ø 1,5 mm	250 cm	10 pack/ 60 pcs

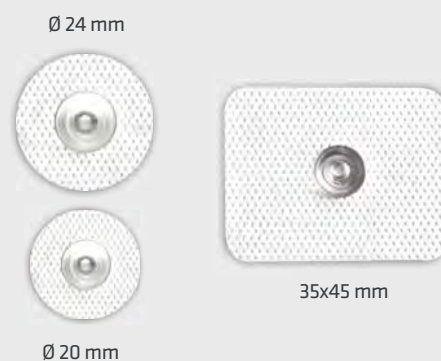


Code	Size	Connectors	Cable Length	Box
DENIS00807	15x20 mm	0,7 mm Touch Proof Pin	8 cm	20 pack/240 pcs
DENIS00830	15x20 mm	1 mm Pin	8 cm	20 pack/240 pcs
DENIS01520	15x20 mm	Snap	/	20 pack/400 pcs
DENIS01500	15x20 mm	Bipolar	15 cm	20 pack/120 pcs
DENIS00807-H	15x20 mm	0,7 mm Touch Proof Pin	8 cm	10 pack/ 120 pcs
DENIS00830-H	15x20 mm	1 mm Pin	8 cm	10 pack/ 120 pcs
DENIS01520-H	15x20 mm	Snap	/	10 pack/200 pcs
DENIS01500-H	15x20 mm	Bipolar	15 cm	10 pack/ 60 pcs



Snap Adhesive Electrodes

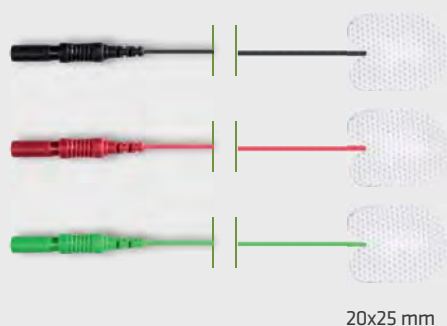
Code	Size	Connectors	Box
CDES000024	Ø 24 mm	Snap	20 pack / 500 pcs
CDES003545	35x45 mm	Snap	20 pack / 80 pcs
CDES003545-H	35x45 mm	Snap	10 pack / 40 pcs



Adhesive Electrodes / EP

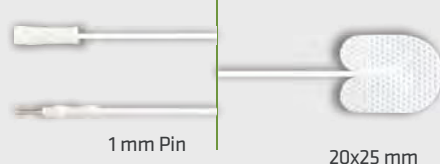
Adhesive Electrodes

· For description please see adhesive electrodes left.

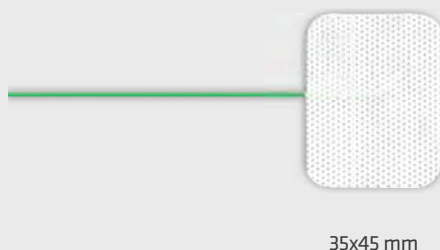


Code	Size	Connectors	Cable Length	Box
DENIL01526	20x25 mm	Ø 1,5 mm	15 cm	20 pack/120 pcs
DENIL10026	20x25 mm	Ø 1,5 mm	100 cm	20 pack/120 pcs
DENIL15026	20x25 mm	Ø 1,5 mm	150 cm	20 pack/120 pcs
DENIL25026	20x25 mm	Ø 1,5 mm	250 cm	20 pack/120 pcs
DENIL01526-H	20x25 mm	Ø 1,5 mm	15 cm	10 pack/ 60 pcs
DENIL10026-H	20x25 mm	Ø 1,5 mm	100 cm	10 pack/ 60 pcs
DENIL15026-H	20x25 mm	Ø 1,5 mm	150 cm	10 pack/ 60 pcs
DENIL25026-H	20x25 mm	Ø 1,5 mm	250 cm	10 pack/ 60 pcs

0,7 mm Touch Proof Pin



Code	Size	Connectors	Cable Length	Box
DENIL00807	20x25 mm	0,7 mm Touch Proof Pin	8 cm	20 pack/240 pcs
DENIL00830	20x25 mm	1 mm Pin	8 cm	20 pack/240 pcs
DENIL02025	20x25 mm	Snap	/	20 pack/400 pcs
DENIL01500	20x25 mm	Bipolar	15 cm	20 pack/ 120 pcs
DENIL00807-H	20x25 mm	0,7 mm Touch Proof Pin	8 cm	10 pack/ 120 pcs
DENIL00830-H	20x25 mm	1 mm Pin	8 cm	10 pack/ 120 pcs
DENIL02025-H	20x25 mm	Snap	/	10 pack/ 200 pcs
DENIL01500-H	20x25 mm	Bipolar	15 cm	10 pack/ 60 pcs



Ground Adhesive Electrodes

Code	Size	Connectors	Cable Length	Box/Pz
DENIG15026	35x45 mm	Ø 1,5 mm	150 cm	20 pack /80 pcs
DENIG15026-H	35x45 mm	Ø 1,5 mm	150 cm	10 pack / 40 pcs

EP /Adhesive Electrodes



NCS Adhesive Electrodes

- High quality adhesive electrodes (Ag/AgCl) for excellent recordings and high resistance to usage.

Code	Size	Connectors	Cable Length	Box
DENIB00807	30x22 mm	0,7 mm Touch Proof Pin	8 cm	20 pack / 120 pcs
DENIB10026	30x22 mm	 Ø 1,5 mm	100 cm	20 pack / 120 pcs
DENIB15026	30x22 mm	 Ø 1,5 mm	150 cm	20 pack / 120 pcs
DENIB25026	30x22 mm	 Ø 1,5 mm	250 cm	20 pack / 120 pcs
DENIB00807-H	30x22 mm	0,7 mm Touch Proof Pin	8 cm	10 pack / 60 pcs
DENIB10026-H	30x22 mm	 Ø 1,5 mm	100 cm	10 pack / 60 pcs
DENIB15026-H	30x22 mm	 Ø 1,5 mm	150 cm	10 pack / 60 pcs
DENIB25026-H	30x22 mm	 Ø 1,5 mm	250 cm	10 pack / 60 pcs

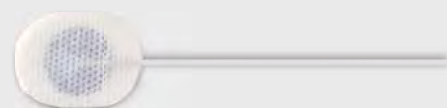
Recording Area 10 mm



Adhesive Electrodes for Sleep or Long Term Monitoring

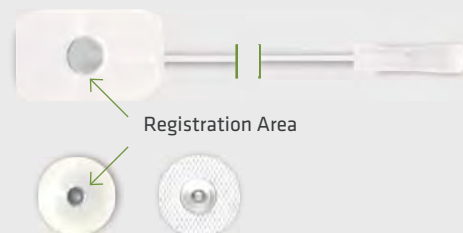
- Material silver chloride (Ag/AgCl) is suitable for PSG and highly durable.
- Small size for pediatric and facial use.
- Excellent recording performance.

Code	Size	Ø Recording Area	Cable Length	Box
DENIF10026	30x22 mm	10 mm	100 cm	20 pack / 120 pcs
DENIF15026	30x22 mm	10 mm	150 cm	20 pack / 120 pcs
DENIF25026	30x22 mm	10 mm	250 cm	20 pack / 120 pcs
DENIF10026-H	30x22 mm	10 mm	100 cm	10 pack / 60 pcs
DENIF15026-H	30x22 mm	10 mm	150 cm	10 pack / 60 pcs
DENIF25026-H	30x22 mm	10 mm	250 cm	10 pack / 60 pcs
 Touch Proof Ø 1,5 mm DIN 42802				



Adhesive Electrodes with Reduced Recording Area

Code	Ø Recording Area	Connectors	Cable Length	Box
DENID00807	6 mm	0,7 mm Touch Proof Pin	8 cm	50 pcs
DAEDS1604	4 mm	Snap	/	25 pcs



Registration Area

Adhesive Electrodes / EP

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
CDE0201026 (-H)	20 mm	100 cm	 Ø 1,5 mm	40 pack/120 pcs
CDE0201526 (-H)	20 mm	150 cm	 Ø 1,5 mm	40 pack/120 pcs
CDE0241026 (-H)	24 mm	100 cm	 Ø 1,5 mm	40 pack/120 pcs
CDE0241526 (-H)	24 mm	150 cm	 Ø 1,5 mm	40 pack/120 pcs
CDER201026 (-H)	20 mm	100 cm	 Ø 1,5 mm	40 pack/120 pcs
CDER201526 (-H)	20 mm	150 cm	 Ø 1,5 mm	40 pack/120 pcs
CDER241026 (-H)	24 mm	100 cm	 Ø 1,5 mm	40 pack/120 pcs
CDER241526 (-H)	24 mm	150 cm	 Ø 1,5 mm	40 pack/120 pcs
CDES000024 (-H)	24 mm	/	Snap	20 pack/500 pcs

You will receive half the packing unit if you use **-H** in the code.

Tab Adhesive Electrodes

Code	Recording Area	Material	Box
TABSMP000014	22 x 14 mm	Ag/AgCl	25 pack / 2500 pcs
TABSM0000025	22 x 20 mm	Ag/AgCl	25 pack / 2500 pcs
TABSMP000014-H	22 x 14 mm	Ag/AgCl	10 pack / 1000 pcs
TABSM0000025-H	22 x 20 mm	Ag/AgCl	10 pack / 1000 pcs
TABSMP00K100	22 x 14 mm	Ag/AgCl	1 pack / 100 pcs
TABSM000K100	22 x 20 mm	Ag/AgCl	1 pack / 100 pcs

EP / Disposable Subdermalneedle

Disposable Subdermal Needle

· Subdermal Needle made of steel.

Code	Needle Length	Needle Ø	Cable Length	Connectors	Pack
MN3512P105	12 mm	0,35 mm	8 cm	1 mm Pin	5 x 5 pcs
MN3512P125	12 mm	0,35 mm	8 cm	1 mm Pin	25 x 1 pcs
MN3512P150	12 mm	0,35 mm	8 cm	1 mm Pin	50 x 5 pcs
MN3512P100	12 mm	0,35 mm	8 cm	1 mm Pin	100 x 1 pcs
MN3512P817	12 mm	0,35 mm	8 cm	0,7 mm	5 x 5 pcs
MN3512P827	12 mm	0,35 mm	8 cm	0,7 mm	25 x 1 pcs



Disposable Subdermal Needle

· Subdermal Needle made of steel.

Code	Needle Length	Needle Ø	Cable Length	Connectors	Pack
MN3518P105	18 mm	0,35 mm	8 cm	1 mm Pin	5 x 5 pcs
MN3518P125	18 mm	0,35 mm	8 cm	1 mm Pin	25 x 1 pcs
MN3518P150	18 mm	0,35 mm	8 cm	1 mm Pin	50 x 5 pcs
MN3518P100	18 mm	0,35 mm	8 cm	1 mm Pin	100 x 1 pcs



Hook Steel Needle Electrodes

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

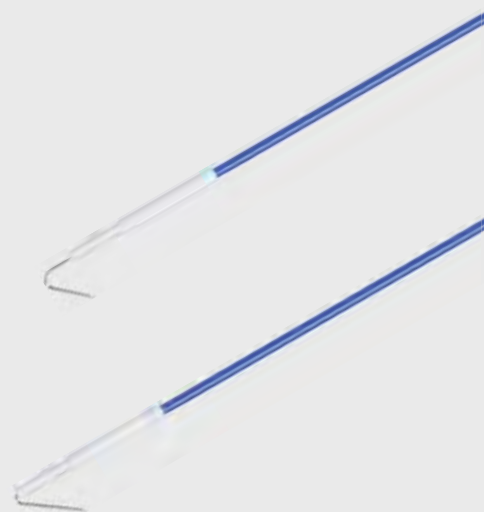
· As recently published (American Society of Neurophysiological Monitoring Guidelines), the curved electrode needles guarantee a greater stability of the signal without risk of needle breakage.

Code	Needle length	Needle Diameter	Cable Length	Pack
MN4013HD10S	13 mm	0,40 mm	100 cm	24 pcs
MN4013HD15S	13 mm	0,40 mm	150 cm	24 pcs
MN4013HD25S	13 mm	0,40 mm	250 cm	24 pcs

 Touch Proof Ø 1,5 mm DIN 42802

Code	Needle length	Needle Diameter	Cable Length	Pack
MN4021CD10S	21 mm	0,40 mm	100 cm	24 pcs
MN4021CD15S	21 mm	0,40 mm	150 cm	24 pcs
MN4021CD25S	21 mm	0,40 mm	250 cm	24 pcs

 Touch Proof Ø 1,5 mm DIN 42802



Subdermal Needle Electrodes / EP



Disposable scalp needle electrode

· with 1 mm Pin connector

Code	Needle length	Needle Diameter	Needle Material	Pack
MN4013P1N10R	13 mm	0,40 mm	steel	10 pcs
MN4013P1N1TR	13 mm	0,40 mm	titanium	10 pcs



Disposable Subdermal Needle

Code	Needle length	Description	Needle Diameter	Pack
MN3010F075	10 mm	0,7 mm Pin connector	0,35 mm	40 pcs



Disposable Subdermal Needle

· with 1 mm PIN connector.

Code	Needle length	Needle Diameter	Pack
MN3512F125	12 mm	0,35 mm	25 x 1 pcs
MN3512F105	12 mm	0,35 mm	5 x 5 pcs
MN3512F100	12 mm	0,35 mm	100 x 1 pcs
MN3512F110	12 mm	0,35 mm	50 x 5 pcs



Reusable Subdermal Needle

· with 2 mm socket.

Code	Needle Length	Needle Diameter	Pack
MN4012F20R	12 mm	0,40 mm	10 pcs

Connecting cable can be found on page 104 - 106



GVB-SPES is passionately focused on the study and the creation of a wide range of electrodes for EMG, NCS and PE.

Thanks to our vast experience, we were able to develop excellent production techniques.

- Electrodes for Stimulation and Registration
 - Monopolar Needles
 - Single fiber Needles
 - Concentric Needles
 - Pudendal Electrodes

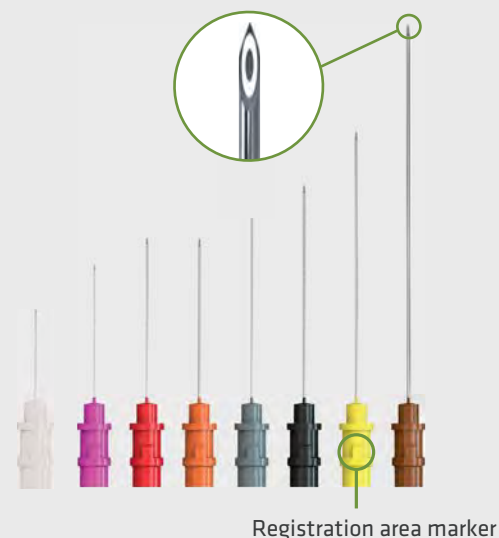
EMG / Disposable Needle Electrodes



MYOLINE - Concentric Needle Electrode

- Our new sharpening provides excellent penetration of the needle and less trauma for the patient. Core wire made of steel.
- Golden connector for best recording.
- 100% quality control on manufactured needles.
- Ergonomic handle with area indicator marker.

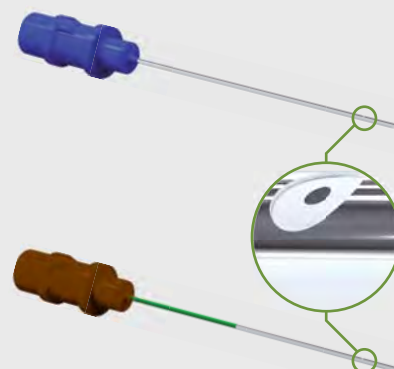
Code	Length	Diameter	Color	Rec area mm ²	Pack
D039035205	20 mm	0,35 mm	○	0,02	25 pcs
D0390302511	25 mm	0,30 mm	●	0,02	25 pcs
D039035302	30 mm	0,35 mm	●	0,07	25 pcs
D0390453010	30 mm	0,45 mm	●	0,07	25 pcs
D039035408	40 mm	0,35 mm	●	0,07	25 pcs
D039045401	40 mm	0,45 mm	●	0,07	25 pcs
D039045504	50 mm	0,45 mm	●	0,07	25 pcs
D039035503	50 mm	0,35 mm	●	0,07	25 pcs
D039045607	60 mm	0,45 mm	●	0,07	25 pcs
D039060706	75 mm	0,60 mm	●	0,07	25 pcs



Single Fiber Needle Electrode

- Recording area on a small side opposite to the cutting edge and close from the tip.
- The Macro version is made with the insulated cannula.
- Core wire made of steel.

Code	Length	Diameter	Model	Rec area mm ²	Pack
DSFN380452506	25 mm	0,45 mm	Single Fiber	0,0011	5 pcs
DSFN380453707	37 mm	0,45 mm	Single Fiber	0,0011	5 pcs
DSFN380453705	37 mm	0,45 mm	Macro	0,0011	5 pcs



Connection Cable

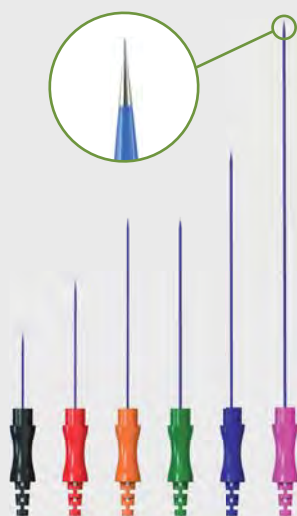
- Connection cables for bipolar needles (Concentric, Single Fiber and Macro).
- Made with extra flexible material and with moulded connection.
- Different lengths and connectors are available on request for any EMG equipment.

Code	Cable Length	Connectors	Pack
10000NNHF3	100 cm	⦿ 5 pole din	1 pc
100200NNHF3	200 cm	⦿ 5 pole din	1 pc

Other connectors on request



Disposable Needle Electrodes / EMG



Monopolar Needle Electrode

- Teflon isolation and sharpening ensure excellent recording and maximum smoothness.
- Ergonomic moulded handgrip.

Code	Length	Diameter	Color	Rec area mm ²	Pack
TFDN261500	15 mm	0,35 mm	●	0,28	25 pcs
TFDN262500	25 mm	0,35 mm	●	0,28	25 pcs
TFDN263700	37 mm	0,35 mm	●	0,28	25 pcs
TFDN263745	37 mm	0,45 mm	●	0,34	25 pcs
TFDN265045	50 mm	0,45 mm	●	0,34	25 pcs
TFDN267545	75 mm	0,45 mm	●	0,34	25 pcs
Touch Proof Ø 1,5 mm DIN 42802					
Cable Length 120 cm					

Monopolar Needle Electrode

- Isolation and sharpening ensure excellent recording and maximum smoothness.
- Ergonomic moulded handgrip.

Code	Length	Diameter	Color	Rec area mm ²	Pack
STFDN-V1	15 mm & 25 mm	0,35 mm	● ●	0,28 & 0,28	25 pair
STFDN-V2	15 mm & 37 mm	0,35 mm	● ●	0,28 & 0,28	25 pair
STFDN-V3	15 mm & 37 mm	0,35 mm	● ●	0,28 & 0,28	25 pair
Touch Proof Ø 1,5 mm DIN 42802					
Cable Length 120 cm					

MIOBOT - Hypodermic Needle Electrode for Injection

- Moulded handgrip with connector for syringe insertion and cable for connection to the device.
- Can be used with traditional hypodermic needle syringes with Luer-Lock attachment ensuring a safe connection of the needle to the syringe.
- Isolated cannula except for the tip.

Code	Length	Diameter	Color	Pack
MIOBOT2530	25 mm	0,30 mm	●	10 pcs
MIOBOT2540	25 mm	0,40 mm	●	10 pcs
MIOBOT3745	37 mm	0,45 mm	●	10 pcs
MIOBOT5050	50 mm	0,50 mm	○	10 pcs
MIOBOT7570	75 mm	0,70 mm	●	10 pcs
Touch Proof Ø 1,5 mm DIN 42802				
Cable Length 76 cm				

Upgrade +

EMG / Stimulation and Recording

Bipolar Stimulating Electrode

- Golden felter spots for better electrical conduction.
- Shielded multipolar cable ensuring the best electrical insulation.
- Velcro strap, pair of metal electrodes (SFERSTILS) and 10 replacement felts (FELT0610) are included in the package.

STIL1526S	25 mm	 Ø 1,5 mm	150 cm	1 pc
STIL1571S	25 mm	 5 pole din	150 cm	1 pc

Bipolar Stimulating Electrode

- Velcro strap, pair of metal electrodes (SFERSTIS) and 10 replacement felts (FELT0310) are included in the package.

Code	Electrode Distance	Connectors	Cable Length	Pack
STIS1526S	10 mm	 Ø 1,5 mm	150 cm	1 pc
STIS1571S	10 mm	 5 pole din	150 cm	1 pc

Surface Recording Bar Electrode

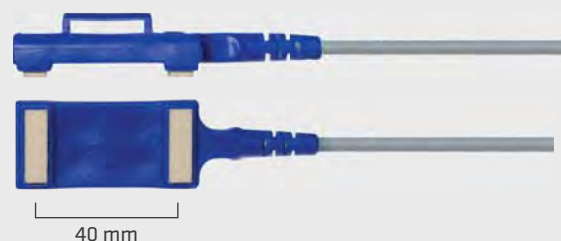
- Ag/AgCl electrodes placed inside an insulated shell felt placement.
- Shielded multipolar cable for best electrical insulation.
- Velcro strap and 10 replacement felts (FELT2010) included.

Code	Electrode Distance	Connectors	Cable Length	Pack
STRCG01526	40 mm	 Ø 1,5 mm	150 cm	1 pc
STRCG01571	40 mm	 5 pole din	150 cm	1 pc
STRCP01526	20 mm	 Ø 1,5 mm	150 cm	1 pc
STRCP01571	20 mm	 5 pole din	150 cm	1 pc

Shielded stimulation electrode

- Ag/AgCl electrodes placed inside an insulated gold shell placement.
- Stimulation electrode with flexible, lightweight cable.
- Ergonomic and durable handgrip.
- Packaging contents 1 electrode, 2 stimulation balls, 10 replacement felts (FELT0610), 1 velcro strap.

Code	Electrode Distance	Connectors	Cable Length	Pack
STIL1526WS	24 mm	 Ø 1,5 mm	150 cm	1 pc
STIL1571WS	24 mm	 5 pole din	150 cm	1 pc



Stimulation and Recording / EMG



Bipolar Stimulation Electrode

- Packaging contents 1 electrode, 2 stimulation balls (SFERSTIM), 10 felts (FELT0710), 1 velcro strap.
- Stimulation balls with screw thread.

Code	Electrode Distance	Connectors	Cable Length	Pack
STIM1526S	28 mm	 Ø 1,5 mm	150 cm	1 pc
STIM1571S	28 mm	 5 pole din	150 cm	1 pc

Accessories

Code	Description	Pack
FELT0710	Replacement felts 7x7 mm for stim. electrode (cod. STIM)	10 pcs
SFERSTIM	Replacement steel ball tips for stimulation electrode (cod. STIM)	2 pcs



Accessories Stimulation Inserts

- Stimulation Inserts are made of stainless steel.

Code	Description	Pack
SFERSTIL	Stimulation ball large	2 pcs
SFERSTIS	Stimulation ball mini	2 pcs
SFERSTILS	Stimulation ball small	2 pcs
SFERSTILZ	Stimulation waffle	2 pcs
SFERSTILB	Stimulation hollow	2 pcs



Fixing Band

Code	Description	Band Length/Width	Pack
VELCROBLU30/3	Velcro fixing band (for STIL; STRC)	30 cm / 2 cm	3 pcs
VELCROBLU55/3	Velcro fixing band (for STIL, STRC)	55 cm / 2 cm	3 pcs
VELCROBLU100/3	Velcro fixing band (for STIL, STRC)	100 cm / 2 cm	3 pcs
VELCROBLUS30/3	Velcro fixing band (for STIS)	30 cm / 1 cm	3 pcs



Felts

Code	Description	Dimensions	Pack
FELT0610	Replacement felts	5 mm x 6 mm	10 pcs
FELT0310	Replacement felts	3 mm x 8 mm	10 pcs
FELT2010	Replacement felts	6 mm x 8 mm x 20 mm	10 pcs

EMG / Stimulation and Recording

Surface Bipolar Bar Stimulation Electrode

- Pair of 10 mm diameter stainless steel electrodes for gel insertion that also facilitates its use in repeated stimulation.
- With the BAIM model you can fasten an elastic band on the back of the stimulating bar.

Code	Electrode Distance	Connectors	Cable Length	Pack
BAIM0026	30 mm	 Ø 1,5 mm	100 cm	1 pc
BAIM0071SH	30 mm	 5 pole din	100 cm Shielded	1 pc
BARR0026	30 mm	 Ø 1,5 mm	100 cm	1 pc
BARR0071SH	30 mm	 5 pole din	100 cm Shielded	1 pc
BAI0026	30 mm	 Ø 1,5 mm	100 cm	1 pc
BAI0071SH	30 mm	 5 pole din	100 cm Shielded	1 pc

Other cable lengths on request.

Code	Description	Pack
RUB00025	Fastening rubber band for BAIM 2,5 x 45 cm - latex free 20 mm distance from hole to hole	1 pc

BAIM



BARR



BAI



Digital Ring Electrodes

- Pair of ring electrodes for recording and stimulation.
- Spring electrode made of medical stainless steel and velcro.

Code	Loop thickness/Material	Connectors	Cable Length	Pack
SRRING0126SHF	2,4 mm - steel	 Ø 1,5 mm	100 cm shielded	1 pc
SRRING0171SHF	2,4 mm - steel	 5 pole din	100 cm shielded	1 pc
SRRING1526SHF	2,4 mm - steel	 Ø 1,5 mm	150 cm shielded	1 pc
SRRING1571SHF	2,4 mm - steel	 5 pole din	150 cm shielded	1 pc
SRRINGS0126SHF	1,45 mm - steel	 Ø 1,5 mm	100 cm shielded	1 pc
SRRINGS0171SHF	1,45 mm - steel	 5 pole din	100 cm shielded	1 pc
SRRINGS1526SHF	1,45 mm - steel	 Ø 1,5 mm	150 cm shielded	1 pc
SRRINGS1571SHF	1,45 mm - steel	 5 pole din	150 cm shielded	1 pc
SRCOL1026F	10 mm - velcro	 Ø 1,5 mm	100 cm shielded	1 pc
SRCOL1071F	10 mm - velcro	 5 pole din	100 cm shielded	1 pc
SRCOL1526F	10 mm - velcro	 Ø 1,5 mm	150 cm shielded	1 pc
SRCOL1571F	10 mm - velcro	 5 pole din	150 cm shielded	1 pc



Stimulation and Recording / EMC

Finger Toe Stimulation Electrode

- Electrode consists of a velcro strip to attach to finger or toe.
- With 0,7mm Pin connection.

Code	Description	Colour	Pack
SRCOLV0000	without cable	● ○	1 pair

Connecting cable - shielded

Code	Electrode Side	Device Side	Cable Length	Pack
1002MED71F	2 x 0,7 mm socket	5 pole din	100 cm	1 pc
1002MED26F	2 x 0,7 mm socket	2 x Ø 1,5 mm	100 cm	1 pc

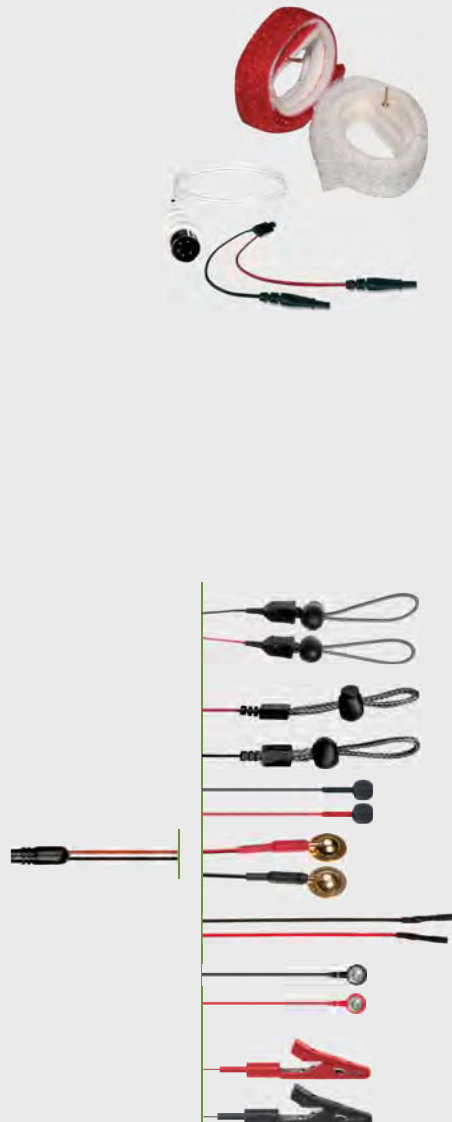
STIM/REC Electrode System

- Stimulating and recording electrodes system for greater accuracy in signal recording by also using different accessories, if needed.
- Save your electromyograph headbox avoiding continuous connection and disconnection of the electrodes.

Code	Description	Pack
SRRING0000	Steel spring ring electrodes	1 pc
SRRINGS000	Thin steel spring ring electrodes	1 pc
SRFLATS000	AgAgCl Flat Electrodes, Ø 8 mm	1 pc
SRDISC0000	Au Disc Electrodes, Ø 10mm	1 pc
SRSOC0000	1 mm connectors	1 pc
SRSTUD0000	Snap connectors	1 pc
SRCLIP0000	Crocodile connectors	1 pc
Cable Length 15 cm		

Connection Cable for STIM/REC Electrodes System

Code	Connectors	Cable Length	Pack
10000NNHF3	5 pole din	100 cm	1 pc
1000SCNHFN	Ø 1,5 mm	100 cm	1 pc



EMG / Stimulation and Recording

Surface Disc Electrode

- Made of stainless steel.
- 1,5mm DIN plug with twisted cable (red/black), with 5 pole DIN plug.

Code	Diameter	Connectors	Cable Length	Pack
SRFLATP1026	10 mm	 Ø 1,5 mm	100 cm	1 pc
SRFALTP1071	10 mm	 5 pole din	100 cm	1 pc



Surface Waffle Electrode

- For motor and sensitive response potential at extremities.
- Also suitable for recording on the face.

Code	Diameter	Connectors	Cable Length	Pack
SRFLATW1226	10 mm	 Ø 1,5 mm	100 cm	1 pc
SRFALTW1271	10 mm	 5 pole din	100 cm	1 pc



Disc Electrodes

- Pair of 10 mm diameter golden disc electrodes for stimulation and recording.
- Available in different cable lengths, connectors and configurations.

Code	Diameter	Material	Connectors	Cable Length	Pack
SRDISC0126T	10 mm	Au	 Ø 1,5 mm	100 cm	1 pc
SRDISC0171SHF	10 mm	Au	 5 pole din	100 cm Shielded	1 pc



Vaginal Probe

- It can be used with and without pelvic floor contraction indicator.
- For comfortable and effective application with muscle stimulation devices.

Code	Connectors	Pack
PERIFORM	2 mm socket	1 pc



Anal Probe

- For use as intra anal probe. Only to be used with in conjunction with muscle stimulation and EEG biofeedback devices.

Code	Connectors	Pack
ANUFORM	2 mm socket	1 pc



Stimulation and Recording / EMG



Ground Band Electrodes

- High quality recording.
- Elastic material which guarantees excellent patient comfort.
- Pulled through with finest stainless steel threads.

Code	Inherent resistance	Length / Width	Pack
GDRG002500	50 OHM	25 cm / 20 mm	1 pc
GDRG004000	50 OHM	40 cm / 20 mm	1 pc
GDRG007000	50 OHM	70 cm / 20 mm	1 pc
GDRGP02500	0 OHM	25 cm / 20 mm	1 pc
GDRGP04000	0 OHM	40 cm / 20 mm	1 pc
GDRGP07000	0 OHM	70 cm / 20 mm	1 pc

Ground Band Electrode with press stud

- With Clip Cable.
- Inherent resistance 0 Ohm.

Code	Length	Recording Area	Pack
GDRGP01003	10,0 cm	9,0 cm	1 pc
GDRGP01903	18,5 cm	18,5 cm	1 pc
GDRGP04503	45,0 cm	44,0 cm	1 pc
GDRGP07503	75,0 cm	74,0 cm	1 pc

Touch Proof Ø 1,5 mm DIN 42802

Cable Length 150 cm

Ground Band Electrode with fixed connecting cable

- Made of a copper strip covered in an absorbent felt.

Code	Length / Width	Cable Length	Pack
GDRGF02526	25 cm / 20 mm	200 cm	1 pc
GDRGF05526	55 cm / 20 mm	150 cm	1 pc

Touch Proof Ø 1,5 mm DIN 42802

Ground Flat Electrodes

- Electrodes can be placed anywhere on the body offering operators great flexibility.

Code	Electrode Diameter	Connectors	Cable	Pack
PLGD155263	32 mm	Touch Proof Ø 1,5 mm	150 cm	1 pc

EMG / Special Electrodes

Upgrade +

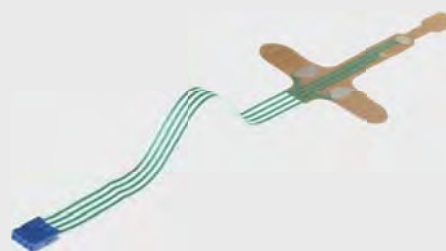
Pudendal Electrode

- Suitable for recording and pelvic floor stimulation.
- Made with biocompatible and elastic materials.

Code	Support	Pack
PUD0001	Flexible	10 pcs
PUDP001	Extra-Flexible	10 pcs

Connection Cable for Pudendal Electrode

Code	Cable Length	Connectors EMG	Connectors STIM	Pack
2001PUD7171SH	200 cm	5 pole din	5 pole din	1 pc
2001PUD7126SH	200 cm	5 pole din	Ø 1,5 mm	1 pc



Hook Wire Needle Electrodes

- Steel thread electrodes for intramuscular EMG examination.
- Length of the steel threads is 10 cm and insulated except for the wire tip PTFE.
- The wires are applied to the muscle through a 25g disposable hypodermic needle .
- Wires without connector will be gripped at the end by a alligator clip cable (page 102 + S. 104) or a IOM clamp (page 107).

Code	Polarity	Needle Length	Connector	Pack
DIMW1105030101	monopolar	30 mm	without connector	10 pcs
DIMW1105050101	monopolar	50 mm	without connector	10 pcs
DIMW1105030102	bipolar	30 mm	without connector	10 pcs
DIMW1105050102	bipolar	50 mm	without connector	10 pcs
DIMW11050301P1	monopolar	30 mm	1 mm	10 pcs
DIMW11050501P1	monopolar	50 mm	1 mm	10 pcs
DIMW11050301P2	bipolar	30 mm	1 mm	10 pcs
DIMW11050501P2	bipolar	50 mm	1 mm	10 pcs



Electroretinography / **EMG**

- Butterfly
- Sterile Electrode for ERG
 - ERG-JET Electrode
 - Gold Leaf Electrode



Disposable ERG Electretinography / EMG



Butterfly

Code	Electrode Diameter	Cable Length	Pack
BUTT01	12 mm	100 cm	1 pc
 Touch Proof Ø 1,5 mm DIN 42802			



Sterile Electrode for ERG

- Designed to be used during Electretinography (ERG).
- Records the electrical signal of the retina cells, including the webs.
- Excellent adhesion, no corneal trauma and no need for local anesthesia.
- Electrode wire is also available.

Code	Cable Length	Connectors	Pack
DT0001	15 cm	 Ø 1,5 mm	10 pcs
Code	Description		Pack
DTW001	Wire 256 cm for ERG Electrode		1 pc

ERG-JET Electrode

Code	Electrode Diameter	Cable Length	Pack
ERG-JET-F-06	12 mm	100 cm	50 pcs
ERG-JET-F-12	12 mm	100 cm	12 pcs
 Touch Proof Ø 1,5 mm DIN 42802			



Disposable Gold Leaf Electrode

- The gold leaf neutralises the electrolyte between metal and mylar layer.
- Easy to place and designed to cause only minor friction on the cornea.

Code	Cable Length	Pack
53043T	100 cm	10 pcs
 Touch Proof Ø 1,5 mm DIN 42802		

NEURO.LINK.



Cables and Adapter

With us you will find a wide selection of cables and adapters for every application and device. On request, we manufacture customized products.

- Cables
- Adapters

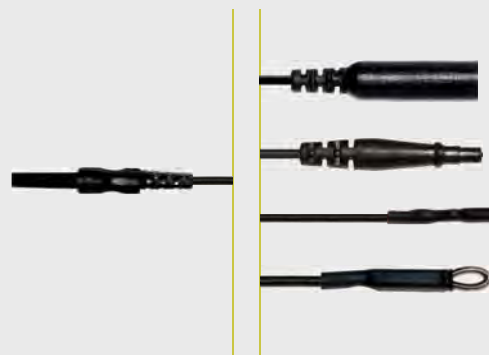
Connection Cables

Monopolar Cables

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

Code	Electrode Side	Cable Length	Pack
MNC10PDINS	1 mm Pin	100 cm	10 pcs
MNC10DDINS	1,5 mm Touch Proof Pin	100 cm	10 pcs
MNC10MEDDINS	0,7 mm Pin	100 cm	10 pcs
LEDCDE0026S	Spring Snap	100 cm	10 pcs
 Touch Proof Ø 1,5 mm DIN 42802			

Pack of 10 cables are available in the following colors:



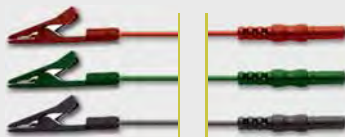
Shielded Multipolar Cables

Code	Electrode Side	Headbox Side	Pack
1003SNAP71F	3x Snap	⊙ 5 pole din	1 pc
1003SNAP26F	3x Snap	 Ø 1,5 mm	1 pc
1003MED71F	3x Pin 0,7 mm	⊙ 5 pole din	1 pc
1003MED26F	3x Pin 0,7 mm	 Ø 1,5 mm	1 pc
1003DIN71F	3x 1,5 mm Touch Proof Pin	⊙ 5 pole din	1 pc
1003DIN26F	3x 1,5 mm Touch Proof Pin	 Ø 1,5 mm	1 pc
1003P1N71F	3x 1 mm Pin	⊙ 5 pole din	1 pc
1003P1N26F	3x 1 mm Pin	 Ø 1,5 mm	1 pc
1003CROC71F	3x Insulated Crocodile	⊙ 5 pole din	1 pc
1003CROC26F	3x Insulated Crocodile	 Ø 1,5 mm	1 pc
1002SNAP71F	2x Snap	⊙ 5 pole din	1 pc
1002SNAP26F	2x Snap	 Ø 1,5 mm	1 pc
1002MED71F	2x 0,7 mm Pin	⊙ 5 pole din	1 pc
1002MED26F	2x 0,7 mm Pin	 Ø 1,5 mm	1 pc
1002DIN71F	2x 1,5 mm Touch Proof Pin	⊙ 5 pole din	1 pc
1002DIN26F	2x 1,5 mm Touch Proof Pin	 Ø 1,5 mm	1 pc
1002P1N71F	2x 1 mm Pin	⊙ 5 pole din	1 pc
1002P1N26F	2x 1 mm Pin	 Ø 1,5 mm	1 pc
1002CROC71F	2x Insulated Crocodile	⊙ 5 pole din	1 pc
1002CROC26F	2x Insulated Crocodile	 Ø 1,5 mm	1 pc
Cable Length 100 cm			



Connection Cables

Pack of 10 connection cables are available in the following colors:



Pack of 10 connection cables are available in the following colors:



Connection Cables

- Cable are coated and guarantee high flexibility.
- Silver conductors provide maximum mechanical resistance and excellent electrical conductivity.

Code	Electrode Side	Headbox Side	Pack
BEC1226C1GS	Insulated Crocodile	Ø 1,5 mm	10 pcs
BEC1223C1GS	Insulated Crocodile	Spring 2 mm pin	10 pcs
BEC1221C1GS	Insulated Crocodile	2 mm Pin	10 pcs
BEC1226C1PS	Mini Croco-Clip	Ø 1,5 mm	10 pcs
BEC122326S	Spring 2 mm pin	Ø 1,5 mm	10 pcs
BEC122323S	Spring 2 mm pin	Spring 2 mm pin	10 pcs
BEC122631S	Spring 3 mm pin	Ø 1,5 mm	10 pcs
BEC122641S	Spring 4 mm pin	Ø 1,5 mm	10 pcs
Cable Length 120 cm			

Crocodile Clip Cable

Code	Cable Length	Colour	Connectors	Pack
LEADC1026653	100 cm		Ø 1,5 mm	1 set
LEADC1526653	150 cm		Ø 1,5 mm	1 set
LEADC2526653	250 cm		Ø 1,5 mm	1 set

Connection Cable

- Sterile disposable connection cable with crocodile terminal.

Code	Cable Length	Colour	Connectors	Pack
MNC25CDIN1ST	250 cm	black	Ø 1,5 mm	1 pc
MNC25CDIN2ST	250 cm	red	Ø 1,5 mm	1 pc

Extensions for EMG Needles

- Different lengths and connectors are available on request and suitable for any EMG equipment.

Code	Cable Length	Pack
MNC10DDINSH	100 cm shielded	1 pc
MNC20DDINSH	100 cm shielded	1 pc
MNC05DDINS	50 cm not shielded	10 pc
MNC10DDINS	100 cm not shielded	10 pc
MNC15DDINS	150 cm not shielded	10 pc
MNC20DDINS	200 cm not shielded	10 pc
MNC25DDINS	250 cm not shielded	10 pc
Touch Proof Ø 1,5 mm DIN 42802		

Connection Cables

Connection Cables

Code	Electrode Side	Headbox Side	Colour	Pack
BEC0852326AX	Spring 2 mm	 Ø 1,5 mm	1  2 	10 pcs
Cable Length 85 cm				

For the right code please replace the X through the number for the right colour



Connection Cables

Code	Electrode Side	Headbox Side	Colour	Pack
BEC102326AX	Spring 2 mm	 Ø 1,5 mm	1  2  3  4  7 	10 pcs
Cable Length 100 cm				

For the right code please replace the X through the number for the right colour



Connection Cables

Code	Electrode Side	Headbox Side	Colour	Pack
BEC1023265X	Spring 2 mm gold	 Ø 1,5 mm	1  2  3  4  7 	10 pcs
Cable Length 100 cm				

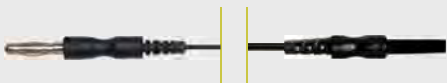
For the right code please replace the X through the number for the right colour



Connection Cables - Mix Pack

Code	Electrode Side	Headbox Side	Colour	Pack
BEC102326A	Spring 2 mm	 Ø 1,5 mm	    	10 pcs
Cable Length 100 cm				

Pack contains 2 cables of each colour



Connection Cables - Mix Pack

Code	Electrode Side	Headbox Side	Colour	Pack
BEC1023265	Spring 2 mm gold	 Ø 1,5 mm	    	10 pcs
Cable Length 100 cm				

Pack contains 2 cables of each colour



Connection Cables

Code	Electrode Side	Headbox Side	Colour	Pack
BEC13232655A	Spring 2 mm pin	 Ø 1,5 mm		10 pcs
Cable Length 130 cm				



Connection Cables

Press Stud Cable

· Press stud cables are suitable for press stud electrodes to the various devices for EKG - EMG - EEG.



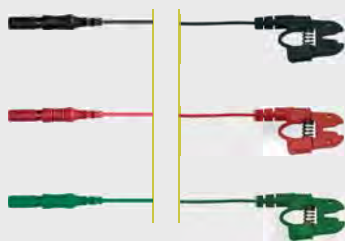
Code	Description	Cable Length	Pack
LEAD1026XX	Select colour number	100 cm	10 pcs
LEAD1526XX	(see below)	150 cm	10 pcs
LEAD2026XX	instead of XX	200 cm	10 pcs
LEAD1026S0	Mix: 2 x	100 cm	10 pcs
LEAD1526S0	Mix: 2 x	150 cm	10 pcs
LEAD2026S0	Mix: 2 x	200 cm	10 pcs

Touch Proof Ø 1,5 mm DIN 42802

Pack of 10 cup electrodes are available in the following colors:

11 22 33 44 55 66 77 88 99 101

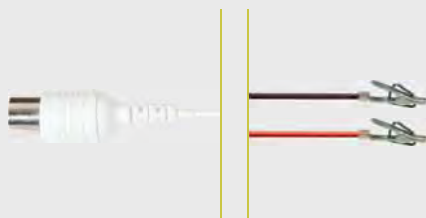
Clip Cable



Code	Colour	Cable Length	Pack
LEADP1026S3		100 cm	1 set
LEADP1526S3		150 cm	1 set
LEADP2526S3		250 cm	1 set

Touch Proof Ø 1,5 mm DIN 42802

Mini Alligator Clip Cable



Code	Headbox Side	Cable Length	Colour	Pack
1502MCROC71F	5 pole din	150 cm		1 pc

Cable and Adapter

Needle Connecting Cable

- 2 wire or 3 wire cable with 1,5 mm DIN or 5 pole 270° plug and 1 mm or 0,7 mm socket or 1 mm PIN plug electrode side.
- Cable is shielded.

Code	Plug	Plug	Cable Length	Pack
1002MED26F	2 x 1,5 mm DIN plug	2 x 0,7 mm socket	100 cm	1 pc
1002MED71F	5 pole plug	2 x 0,7 mm socket	100 cm	1 pc
2002MED26F	2 x 1,5 mm DIN plug	2 x 0,7 mm socket	200 cm	1 pc
2002MED71F	5 pole plug	2 x 0,7 mm socket	200 cm	1 pc
1002P1N26F	2 x 1,5 mm DIN plug	2 x 1 mm pin	100 cm	1 pc
1002P1N71F	5 pole plug	2 x 1 mm pin	100 cm	1 pc
2002P1N26F	2 x 1,5 mm DIN plug	2 x 1 mm pin	200 cm	1 pc
2002P1N71F	5 pole plug	2 x 1 mm pin	200 cm	1 pc
1002P126F	2 x 1,5 mm DIN plug	2 x 1 mm socket	100 cm	1 pc
1002P171F	5 pole plug	2 x 1 mm socket	100 cm	1 pc
2002P126F	2 x 1,5 mm DIN plug	2 x 1 mm socket	200 cm	1 pc
2002P171F	5 pole plug	2 x 1 mm socket	200 cm	1 pc



Code	Plug	Plug	Cable Length	Pack
1003MED26F	3 x 1,5 mm DIN plug	3 x 0,7 mm socket	100 cm	1 pc
1003MED71F	5 pole plug	3 x 0,7 mm socket	100 cm	1 pc
2003MED26F	3 x 1,5 mm DIN plug	3 x 0,7 mm socket	200 cm	1 pc
2003MED71F	5 pole plug	3 x 0,7 mm socket	200 cm	1 pc
1003P1N26F	3 x 1,5 mm DIN plug	3 x 1 mm pin	100 cm	1 pc
1003P1N71F	5 pole plug	3 x 1 mm pin	100 cm	1 pc
2003P1N26F	3 x 1,5 mm DIN plug	3 x 1 mm pin	200 cm	1 pc
2003P1N71F	5 pole plug	3 x 1 mm pin	200 cm	1 pc
1003P126F	3 x 1,5 mm DIN plug	3 x 1 mm socket	100 cm	1 pc
1003P171F	5 pole plug	3 x 1 mm socket	100 cm	1 pc
2003P126F	3 x 1,5 mm DIN plug	3 x 1 mm socket	200 cm	1 pc
2003P171F	5 pole plug	3 x 1 mm socket	200 cm	1 pc



Connecting Cable

· 1,5 mm DIN plug on device side and equipped with 1 mm, 0,7 mm socket or 1 mm PIN plug electrode side.



Code	Twisted	Plug	Cable Length	Pack
MNC10PDINS	single	1 mm socket	100 cm	10 pcs
MNC10PDINT2	double	1 mm socket	100 cm	2 pair
MNC10PDINT3	triple	1 mm socket	100 cm	2 pair
MNC10PDINT5	fivefold	1 mm socket	100 cm	2 pair
MNC15PDINS	single	1 mm socket	150 cm	10 pcs
MNC15PDINT2	double	1 mm socket	150 cm	2 pair
MNC15PDINT3	triple	1 mm socket	150 cm	2 pair
MNC15PDINT5	fivefold	1 mm socket	150 cm	2 pair
MNC20PDINS	single	1 mm socket	200 cm	10 pcs
MNC20PDINT2	double	1 mm socket	200 cm	2 pair
MNC20PDINT3	triple	1 mm socket	200 cm	2 pair
MNC20PDINT5	fivefold	1 mm socket	200 cm	2 pair



Code	Twisted	Plug	Cable Length	Pack
MNC10MEDDINS	single	0,7 mm socket	100 cm	10 pcs
MNC10MEDDINT2	double	0,7 mm socket	100 cm	2 pair
MNC10MEDDINT3	triple	0,7 mm socket	100 cm	2 pair
MNC10MEDDINT5	fivefold	0,7 mm socket	100 cm	2 pair
MNC15MEDDINS	single	0,7 mm socket	150 cm	10 pcs
MNC15MEDDINT2	double	0,7 mm socket	150 cm	2 pair
MNC15MEDDINT3	triple	0,7 mm socket	150 cm	2 pair
MNC15MEDDINT5	fivefold	0,7 mm socket	150 cm	2 pair
MNC20MEDDINS	single	0,7 mm socket	200 cm	10 pcs
MNC20MEDDINT2	double	0,7 mm socket	200 cm	2 pair
MNC20MEDDINT3	triple	0,7 mm socket	200 cm	2 pair
MNC20MEDDINT5	fivefold	0,7 mm socket	200 cm	2 pair



Code	Twisted	Plug	Cable Length	Pack
MNC10PIN1DINS	single	1 mm pin	100 cm	10 pcs
MNC10PIN1DINT2	double	1 mm pin	100 cm	2 pair
MNC10PIN1DINT3	triple	1 mm pin	100 cm	2 pair
MNC10PIN1DINT5	fivefold	1 mm pin	100 cm	2 pair
MNC15PIN1DINS	single	1 mm pin	150 cm	10 pcs
MNC15PIN1DINT2	double	1 mm pin	150 cm	2 pair
MNC15PIN1DINT3	triple	1 mm pin	150 cm	2 pair
MNC15PIN1DINT5	fivefold	1 mm pin	150 cm	2 pair
MNC20PIN1DINS	single	1 mm pin	200 cm	10 pcs
MNC20PIN1DINT2	double	1 mm pin	200 cm	2 pair
MNC20PIN1DINT3	triple	1 mm pin	200 cm	2 pair
MNC20PIN1DINT5	fivefold	1 mm pin	200 cm	2 pair

Connection Cables /Adapter

Connection Cable for Hook Wire Electrodes

· Different lengths and connectors are available for any commercial equipment and are available on request.

Code	Headbox Side	Electrode Side	Color	Cable Length	Pack
BEC1026C1M1	 Ø 1,5 mm	1x Micro Clip	●	100 cm	1 pc
BEC1026C2M2	 Ø 1,5 mm	1x Micro Clip	●	100 cm	1 pc
1002C1M71F	 5 pole din	2x Micro Clip	●	100 cm	1 pc
1002C1M26F	 Ø 1,5 mm	2x Micro Clip	●	100 cm	1 pc



Adapter Cable

· 3 pole 180° connector on electrode side.

Code	Device Side	Color	Pack
ADK-7526-00	2 x  Ø 1,5 mm	● ●	1 pc
ADK-7521-00	2 x 2 mm connector	● ●	1 pc



Adapter Cable

· 5 pole 270° connector on electrode side.

Code	Device Side	Color	Pack
ADK-7326-00	2 x  Ø 1,5 mm	● ●	1 pc
ADK-7321-00	2 x 2 mm connector	● ●	1 pc



Adapter Cable

· 5 pole connector 270° on electrode side.

Code	Device Side	Pack
ADK-7362-00	3 pole connector 180°	1 pc
ADK-7372-00	5 pole connector 180°	1 pc



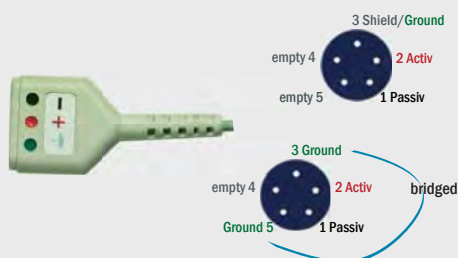
Clip Adapter

· Different lengths and connectors are available on request and suitable for any EMG equipment.

Code	Color	Pack
ADT-4633W	white	1 pc



Adapters



Adapters and Accessories

Code	Description	Pack
JUMP26261	Touch Proof Ø 1,5 mm connector bridge ●	5 pc
JUMP26262	Touch Proof Ø 1,5 mm connector bridge ●	5 pc
JUMP26263	Touch Proof Ø 1,5 mm connector bridge ●	5 pc
Cable Length 15 cm		

Shielded Cable for Touch Proof Ø 1,5 mm connector

Code	Description	Cable Length	Pack
PK63SH0671-3	3 connectors	60 cm	1 pc
PK63SH1271-3	3 connectors	120 cm	1 pc
PK63SH1571-3	3 connectors	150 cm	1 pc
PK63SH2071-3	3 connectors	200 cm	1 pc
PK63SH0671-8	3 connectors	60 cm	1 pc
PK63SH1271-8	3 connectors	120 cm	1 pc
PK63SH1571-8	3 connectors	150 cm	1 pc
PK63SH2071-8	3 connectors	200 cm	1 pc

Adapters and Accessories

ADDIN2F01	Touch Proof Ø 1,5 mm Adapter / 2 mm connector ●	5 pcs
ADDIN2F02	Touch Proof Ø 1,5 mm Adapter / 2 mm connector ●	5 pcs

ADP02DIN1	Touch Proof Ø 1,5 mm male adapter/ 2 mm pin ●	5 pcs
ADP02DIN2	Touch Proof Ø 1,5 mm male adapter/ 2 mm pin ●	5 pcs
ADPM2DIN	Touch Proof Ø 1,5 mm male adapter / 2 mm spring pin ●	5 pcs

CROC04F1	Crocodile adapter / 4 mm connector ●	5 pcs
CROC04F2	Crocodile adapter / 4 mm connector ●	5 pcs

CROC01IS	Crocodile adapter / 2 mm connector ●	5 pcs
CROC02IS	Crocodile adapter / 2 mm connector ●	5 pcs

ADPT2F01	Snap adapter / 2 mm connector ●	5 pcs
ADPT2F02	Snap adapter / 2 mm connector ●	5 pcs

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JOM - NEUROSURGERY - SENSORS - ELECTRODES

EEG EMG EP JOM

NEURO.DART.

SUBDURAL NEEDLE ELECTRODES



GVB-SPES has incorporated its long term experience as well as the user's requirements in the development of high-quality products.

During the procedure of the intraoperative monitoring surgeons and neurologists are supported by market leading products.

- Intramuscular Needle Electrodes
 - Subdermal Needle Electrodes
 - Pry-Tympanic Electrode
 - Laryngeal Electrode
 - Stimulation Probes
 - Corkscrew Electrodes
 - Grid Electrodes
 - Ear Plugs

IOM / Disposable Stimulation Probes

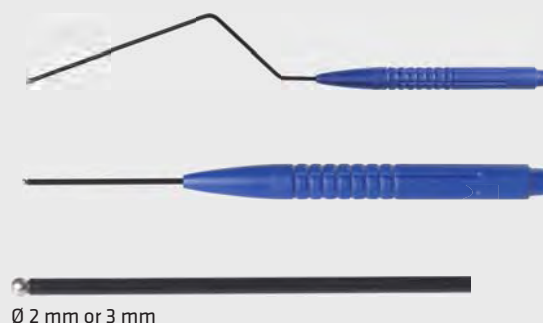
Monopolar

Code	Model	Probe Length	Pack
SI1I0045S2526D	Monopolar	45 mm	5 pcs
SI1I0100S2526D	Monopolar	100 mm	5 pcs
SI1I0200S2526D	Monopolar	200 mm	5 pcs
SI1IC045S2526D	Bent monopolar	45 mm	5 pcs
SI1IC095S2526D	Bent monopolar	95 mm	5 pcs
SI1IB130S2526D	Bayonett monopolar	130 mm	5 pcs
SI1ID130S2526D	Double Bayonett monopolar	130 mm	5 pcs



Ball Monopolar

Code	Model	Probe Length	Probe Diameter	Pack
SI1B0045S2526D	Ball Monopolar	45 mm	2 mm	5 pcs
SI1B0100S2526D	Ball Monopolar	100 mm	3 mm	5 pcs
SI1BC045S2526D	Ball Bent Monopolar	45 mm	2 mm	5 pcs
SI1BC095S2526D	Ball Bent Monopolar	95 mm	2 mm	5 pcs
SI1BB130S2526D	Ball Bayonett Monopolar	130 mm	3 mm	5 pcs
SI1BD130S2526D	Ball Double Bayonett Monopolar	130 mm	3 mm	5 pcs



Ball Bipolar

Code	Model	Probe Length	Probe Diameter	Pack
SI2B0030S2526D	Ball Bipolar	30 mm	2 mm	5 pcs



Concentric Bipolar

Code	Description	Probe Length	Pack
SI2C0045S2526D	Concentric Bipolar	45 mm	5 pcs
SI2C0100S2526D	Concentric Bipolar	100 mm	5 pcs
SI2CB130S2526D	Bayonett concentric bipolar	130 mm	5 pcs
SI2CC045S2526D	Bent concentric bipolar	45 mm	5 pcs
SI2CC095S2526D	Bent concentric bipolar	95 mm	5 pcs
SI2T0045S2526D	Ball concentric bipolar	45 mm	5 pcs
SI2T0100S2526D	Ball concentric bipolar	100 mm	5 pcs
SI2TC045S2526D	Ball bent concentric bipolar	45 mm	5 pcs
SI2TC100S2526D	Ball bent concentric bipolar	100 mm	5 pcs



Reusable Stimulation Probes / IOM

Monopolar



Code	Model	Probe Length	Pack
SI1I0060M0032R	Monopolar	60 mm	1 pc
SI1I0090M0032R	Monopolar	90 mm	1 pc
SI1IC060M0032R	Bent monopolar	60 mm	1 pc
SI1IC090M0032R	Bent monopolar	90 mm	1 pc
SI1IB130M0032R	Bayonett monopolar	130 mm	1 pc
SI1ID130M0032R	Double Bayonett monopolar	130 mm	1 pc



Ball Monopolar



Code	Model	Probe Length	Probe Diameter	Pack
SI1B0060M0032R	Ball Monopolar	60 mm	2 mm	1 pc
SI1B0090M0032R	Ball Monopolar	90 mm	3 mm	1 pc
SI1BC060M0032R	Ball Bent Monopolar	60 mm	2 mm	1 pc
SI1B0090M0032R	Ball Bent Monopolar	90 mm	2 mm	1 pc
SI1BB130M0032R	Ball Bayonett Monopolar	130 mm	3 mm	1 pc
SI1BD130M0032R	Ball Double Bayonett Monopolar	130 mm	3 mm	1 pc



Ball Bipolar

Code	Model	Probe Length	Probe Diameter	Pack
SI2B0010M0032R	Ball Bipolar	10 mm	2 mm	1 pc

Concentric Bipolar



Code	Description	Probe Length	Pack
SI2C0060M0032R	Concentric Bipolar	60 mm	1 pc
SI2C0090M0032R	Concentric Bipolar	90 mm	1 pc
SI2CB130M0032R	Bayonett concentric bipolar	130 mm	1 pc
SI2CC060M0032R	Bent concentric bipolar	60 mm	1 pc
SI2CC090M0032R	Bent concentric bipolar	90 mm	1 pc
SI2T0060M0032R	Ball concentric bipolar	60 mm	1 pc
SI2T0090M0032R	Ball concentric bipolar	90 mm	1 pc
SI2TC060M0032R	Ball bent concentric bipolar	60 mm	1 pc
SI2TC090M0032R	Ball bent concentric bipolar	90 mm	1 pc

IOM / Disposable Stimulation Probes

Minifork

Code	Model	Probe Length	Pack
SI2F0045S2526D	Bipolar minifork	45 mm	5 pcs
SI2F0100S2526D	Bipolar minifork	100 mm	5 pcs
SI2FB130S2526D	Bayonett bipolar minifork	130 mm	5 pcs
SI2FC045S2526D	Bent bipolar minifork	45 mm	5 pcs
SI3FC095S2526D	Bent tripolar pediatric minifork	95 mm	5 pcs



Hook Bipolar

Code	Model	Probe Length	Pack
SI2H0020S2526D	Hook	20 mm	5 pcs



Bipolar Triple Hook

Code	Model	Probe Length	Pack
SI3H0020S2526D	Triple Hook	20 mm	5 pcs



Rhizotomy

Code	Model	Probe Length	Pack
On request	Rhizotomy	100 mm	5 set



Reusable Stimulation Probes / IOM

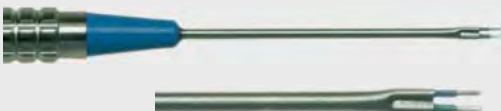
Disposable Flush Tip

Code	Model	Probe Length	Pack
SI1IF095S2526D	Flush Tip	95 mm	5 pcs



Minifork

Code	Model	Probe Length	Pack
SI2F0060M0032R	Bipolar minifork	60 mm	1 pc
SI2F0090M0032R	Bipolar minifork	90 mm	1 pc
SI2FB130M0032R	Bayonett bipolar minifork	130 mm	1 pc
SI2FC060M0032R	Bent bipolar minifork	60 mm	1 pc
SI2FC090M0032R	Bent bipolar minifork	90 mm	1 pc
SI3F0090M0032R	Bent tripolar pediatric minifork	90 mm	1 pc



Hook Bipolar

Code	Model	Probe Length	Pack
SI2H0060M0032R	Hook	60 mm	1 pc



Bipolar Triple Hook

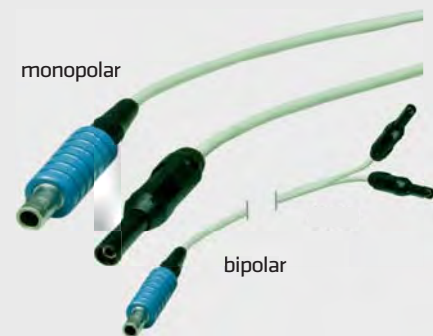
Code	Model	Probe Length	Pack
SI3H0060M0032R	Triple Hook	60 mm	1 pc

IOM / Disposable Stimulation Probes

Connecting cable for reusable probes

- Lemo plug to 1,5 mm DIN plug.

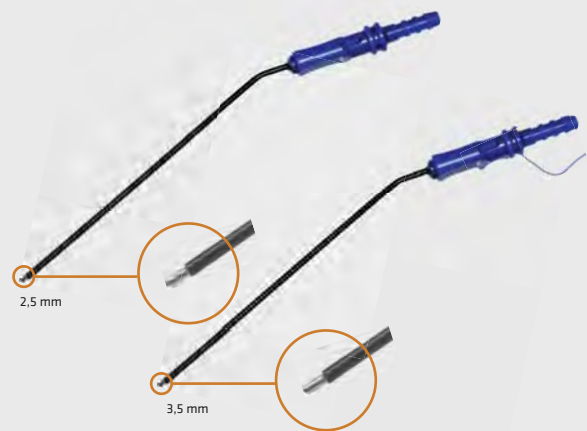
Code	Description	Cablelength	Pack
MNC253326M	Monopolar	250 mm	1 pc
MNC253326B	Bipolar	250 mm	1 pc



Suction Stimulator Probe

- Provides a dry stimulation field for accurate testing.
- Tip designed to simultaneously provide repeatable stimulation and evacuate conductive fluids that generate electrical shunting.

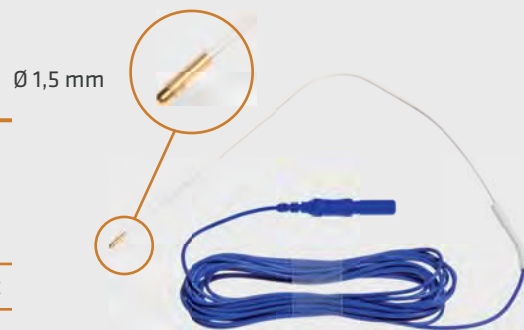
Code	Connector	Tip Diameter	Probe Length	Pack
SI1K0130S2526D	 Ø 1,5 mm	2,5 mm	130 mm	5 pc
SI1K0260S2526D	 Ø 1,5 mm	2,5 mm	260 mm	5 pc
SI1K0130S3526D	 Ø 1,5 mm	3,5 mm	130 mm	5 pc
SI1K0260S3526D	 Ø 1,5 mm	3,5 mm	260 mm	5 pc



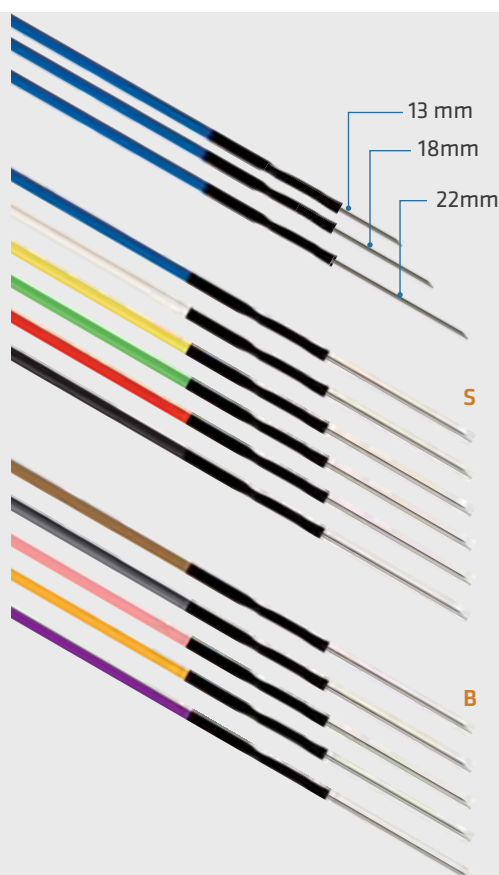
Tympanic Electrode - sterile packed

- Our tympanic electrode is designed to be used during electrocycleography (ECOchG) and timpanic membrane (TM) signal monitoring and recording.
- Soft and flexible insulating material.
- Smooth, rounded probe tip with golden sensor.

Code	Cable Length	Connectors	Pack
TED001	250 cm	 Ø 1,5 mm	1 Box - 5 pcs



Disposable Subdermal Needle Electrodes / IOM



Neurodart - Subdermal Steel 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	Pack
MN4013D10S	13 mm	0,40 mm	100 cm	24 pcs
MN4013D10B	13 mm	0,40 mm	100 cm	24 pcs
MN4013D15S	13 mm	0,40 mm	150 cm	24 pcs
MN4013D15B	13 mm	0,40 mm	150 cm	24 pcs
MN4013D25S	13 mm	0,40 mm	250 cm	24 pcs
MN4013D25B	13 mm	0,40 mm	250 cm	24 pcs
MN4018D10S	18 mm	0,40 mm	100 cm	24 pcs
MN4018D15S	18 mm	0,40 mm	150 cm	24 pcs
MN4018D25S	18 mm	0,40 mm	250 cm	24 pcs
MN4022D10S	22 mm	0,40 mm	100 cm	24 pcs
MN4022D15S	22 mm	0,40 mm	150 cm	24 pcs
MN4022D25S	22 mm	0,40 mm	250 cm	24 pcs

Touch Proof Ø 1,5 mm DIN 42802

Item available in two different color sets (Ref. code):

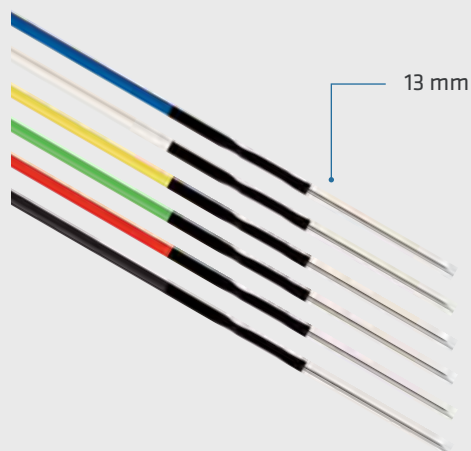
S ● ● ● ● ● ● B ● ● ● ● ● ●

Neurodart - Subdermal Steel Needle Electrodes

- Needle length 13 mm and needle diameter 0,40 mm.
- Available in single colours.

Code	Colour	Cable Length	Pack
MN4013D101	●	100 cm	25 pcs
MN4013D102	●	100 cm	25 pcs
MN4013D103	●	100 cm	25 pcs
MN4013D104	●	100 cm	25 pcs
MN4013D105	○	100 cm	25 pcs
MN4013D106	●	100 cm	25 pcs
MN4013D151	●	150 cm	25 pcs
MN4013D152	●	150 cm	25 pcs
MN4013D153	●	150 cm	25 pcs
MN4013D154	●	150 cm	25 pcs
MN4013D155	○	150 cm	25 pcs
MN4013D156	●	150 cm	25 pcs
MN4013D251	●	250 cm	25 pcs
MN4013D252	●	250 cm	25 pcs
MN4013D253	●	250 cm	25 pcs
MN4013D254	●	250 cm	25 pcs
MN4013D255	○	250 cm	25 pcs
MN4013D256	●	250 cm	25 pcs

Touch Proof Ø 1,5 mm DIN 42802



IOM / Disposable Subdermal Needle Electrodes

Twisted Subdermal Steel Needle Electrodes

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

Code	Needle Length	Needle Diameter	Cable Length	Pack
MN4013D10A/S	13 mm	0,40 mm	2 x 100 cm	20 set
MN4013D10B/S	13 mm	0,40 mm	2 x 100 cm	20 set
MN4013D15A/S	13 mm	0,40 mm	2 x 150 cm	20 set
MN4013D15B/S	13 mm	0,40 mm	2 x 150 cm	20 set
MN4013D25A/S	13 mm	0,40 mm	2 x 250 cm	20 set
MN4013D25B/S	13 mm	0,40 mm	2 x 250 cm	20 set
MN4018D10A/S	18 mm	0,40 mm	2 x 100 cm	20 set
MN4018D10B/S	18mm	0,40 mm	2 x 100 cm	20 set
MN4018D15A/S	18 mm	0,40 mm	2 x 150 cm	20 set
MN4018D15B/S	18 mm	0,40 mm	2 x 150 cm	20 set
MN4018D25A/S	18 mm	0,40 mm	2 x 250 cm	20 set
MN4018D25B/S	18 mm	0,40 mm	2 x 250 cm	20 set
MN4022D10A/S	22 mm	0,40 mm	2 x 100 cm	20 set
MN4022D10B/S	22 mm	0,40 mm	2 x 100 cm	20 set
MN4022D15A/S	22 mm	0,40 mm	2 x 150 cm	20 set
MN4022D15B/S	22 mm	0,40 mm	2 x 150 cm	20 set
MN4022D25A/S	22 mm	0,40 mm	2 x 250 cm	20 set
MN4022D25B/S	22 mm	0,40 mm	2 x 250 cm	20 set

Item available in two different color sets (Ref. code):

A/S  B/S 



Twisted Subdermal Steel Needle Electrodes

Code	Needle Length	Needle Diameter	Cable Length	Pack
TT03MN4013D/10	13 mm	0,40 mm	3 x 100 cm	10 Set
TT03MN4013D/15	13 mm	0,40 mm	3 x 150 cm	10 Set
TT03MN4013D/25	13 mm	0,40 mm	3 x 250 cm	10 Set
TT03MN4018D/10	18 mm	0,40 mm	3 x 100 cm	10 Set
TT03MN4018D/15	18mm	0,40 mm	3 x 150 cm	10 Set
TT03MN4018D/25	18 mm	0,40 mm	3 x 250 cm	10 Set

Item available in colour set





Disposable Subdermal Needle Electrodes / IOM



Twisted Subdermal Steel Needle Electrodes

Code	Needle Length	Diameter	Cable Length	Pack
TT05MN4013D/10	13 mm	0,40 mm	5 x 100 cm	10 set
TT05MN4013D/15	13 mm	0,40 mm	5 x 150 cm	10 set
TT05MN4013D/25	13 mm	0,40 mm	5 x 250 cm	10 set
TT05MN4018D/10	18 mm	0,40 mm	5 x 100 cm	10 set
TT05MN4018D/15	18 mm	0,40 mm	5 x 150 cm	10 set
TT05MN4018D/25	18 mm	0,40 mm	5 x 250 cm	10 set

The subdermal needles are available as a color mix.



Subdermal Steel Needle Electrodes

· Our subdermal needle electrodes are made of steel and because of the handle very easy to use

Code	Needle Length	Diameter	Cable Length	Pack
MN4013D10MS	13 mm	0,40 mm	100 cm	25 pcs
MN4013D15MS	13 mm	0,40 mm	150 cm	25 pcs
MN4018D10MS	18 mm	0,40 mm	100 cm	25 pcs
MN4018D15MS	18 mm	0,40 mm	150 cm	25 pcs

 Touch Proof Ø 1,5 mm DIN 42802

The subdermal needles are available as a color mix.



Neurodart - Subdermal Steel Needle Electrodes

Code	Needle Length	Diameter	Cable Length	Pack
MN2013D10S	13 mm	0,20 mm	100 cm	24 pcs
MN2013D10B	13 mm	0,20 mm	100 cm	24 pcs
MN4013D15S	13 mm	0,20 mm	150 cm	24 pcs
MN2013D15B	13 mm	0,20 mm	150 cm	24 pcs
MN2013D25S	13 mm	0,20 mm	250 cm	24 pcs
MN2013D25B	13 mm	0,20 mm	250 cm	24 pcs

Items available in two different color sets (Ref. code):

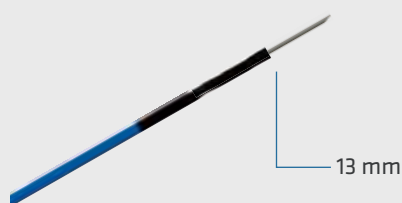
S  B 

Twisted Subdermal Steel Needle Electrodes

Code	Needle Length	Diameter	Cable Length	Pack
MN2013D10A/S	13 mm	0,20 mm	2 x 100 cm	20 set
MN2013D10B/S	13 mm	0,20 mm	2 x 100 cm	20 set
MN2013D15A/S	13 mm	0,20 mm	2 x 150 cm	20 set
MN2013D15B/S	13 mm	0,20 mm	2 x 150 cm	20 set
MN2013D25A/S	13 mm	0,20 mm	2 x 250 cm	20 set
MN2013D25B/S	13 mm	0,20 mm	2 x 250 cm	20 set

Items available in two different color sets (Ref. code):

A/S  B/S 



IOM / Reusable Subdermal Needle Electrodes

Reusable Twisted Subdermal Steel Needle Electrodes

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

Code	Needle length	Needle Diameter	Cable Length	Pack
MN4013D102TR	13 mm	0,40 mm	2 x 100 cm	1 pair
MN4013D152TR	13 mm	0,40 mm	2 x 150 cm	1 pair
MN4013D252TR	13 mm	0,40 mm	2 x 250 cm	1 pair

MN4018D102TR	18 mm	0,40 mm	2 x 100 cm	1 pair
MN4018D152TR	18mm	0,40 mm	2 x 150 cm	1 pair
MN4018D252TR	18 mm	0,40 mm	2 x 250 cm	1 pair

Item available in colour set



Reusable Twisted Subdermal Steel Needle Electrodes

Code	Needle length	Needle Diameter	Cable Length	Pack
MN4013D103TR	13 mm	0,40 mm	3 x 100 cm	1 pair
MN4013D153TR	13 mm	0,40 mm	3 x 150 cm	1 pair
MN4013D253TR	13 mm	0,40 mm	3 x 250 cm	1 pair

MN4018D103TR	18 mm	0,40 mm	3 x 100 cm	1 pair
MN4018D153TR	18mm	0,40 mm	3 x 150 cm	1 pair
MN4018D253TR	18 mm	0,40 mm	3 x 250 cm	1 pair

Item available in colour set



Reusable Twisted Subdermal Steel Needle Electrodes

Code	Needle length	Needle Diameter	Cable Length	Pack
MN4013D105TR	13 mm	0,40 mm	5 x 100 cm	1 pair
MN4013D155TR	13 mm	0,40 mm	5 x 150 cm	1 pair
MN4013D255TR	13 mm	0,40 mm	5 x 250 cm	1 pair

MN4018D105TR	18 mm	0,40 mm	5 x 100 cm	1 pair
MN4018D155TR	18mm	0,40 mm	5 x 150 cm	1 pair
MN4018D255TR	18 mm	0,40 mm	5 x 250 cm	1 pair

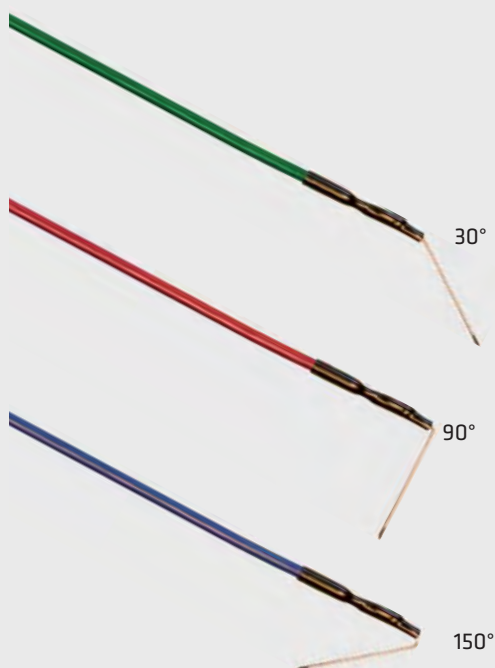
Item available in colour set



Disposable Subdermal Needle Electrodes / IOM

Neurodart - Monopolar Steel Needle Electrodes - not isolated

- Specially developed for use in thyroid operations. Provides excellent EMG potentials.
- The diameter of each needle is 0,35 mm. 6 x 4 colours in packaging.

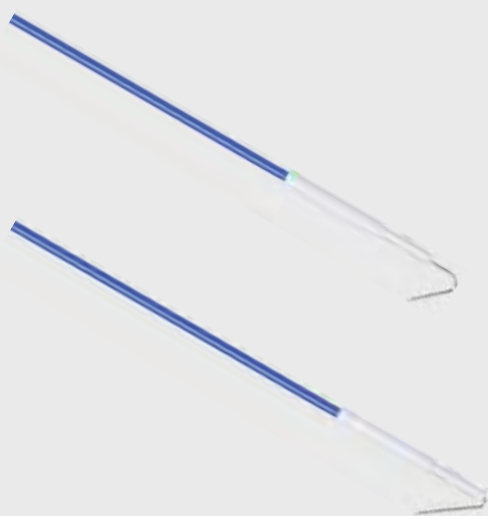


Code	Angle	Needle Length	Cable Length	Pack
MN3520HD10S3	30°	20 mm	100 cm	24 pcs
MN3530HD10S3	30°	30 mm	100 cm	24 pcs
MN3540HD10S3	30°	40 mm	100 cm	24 pcs
MN3520HD15S3	30°	20 mm	150 cm	24 pcs
MN3530HD15S3	30°	30 mm	150 cm	24 pcs
MN3540HD15S3	30°	40 mm	150 cm	24 pcs
MN3520HD10S4	90°	20 mm	100 cm	24 pcs
MN3530HD10S4	90°	30 mm	100 cm	24 pcs
MN3540HD10S4	90°	40 mm	100 cm	24 pcs
MN3520HD15S4	90°	20 mm	150 cm	24 pcs
MN3530HD15S4	90°	30 mm	150 cm	24 pcs
MN3540HD15S4	90°	40 mm	150 cm	24 pcs
MN3520HD10S1	150°	20 mm	100 cm	24 pcs
MN3530HD10S1	150°	30 mm	100 cm	24 pcs
MN3540HD10S1	150°	40 mm	100 cm	24 pcs
MN3520HD15S1	150°	20 mm	150 cm	24 pcs
MN3530HD15S1	150°	30 mm	150 cm	24 pcs
MN3540HD15S1	150°	40 mm	150 cm	24 pcs

 Touch Proof Ø 1,5 mm DIN 42802

Hook Steel Needle Electrodes

- Our hook needle electrodes provide excellent signal recording and effective stimulation on the patient.
- As recently published (American Society of Neurophysiological Monitoring Guidelines), the curved electrode needles guarantee a greater stability of the signal without risk of needle breakage.



Code	Needle length	Needle Diameter	Cable Length	Pack
MN4013HD10S	13 mm	0,40 mm	100 cm	24 pcs
MN4013HD15S	13 mm	0,40 mm	150 cm	24 pcs
MN4013HD25S	13 mm	0,40 mm	250 cm	24 pcs

 Touch Proof Ø 1,5 mm DIN 42802

Code	Needle length	Needle Diameter	Cable Length	Pack
MN4021CD10S	21 mm	0,40 mm	100 cm	24 pcs
MN4021CD15S	21 mm	0,40 mm	150 cm	24 pcs
MN4021CD25S	21 mm	0,40 mm	250 cm	24 pcs

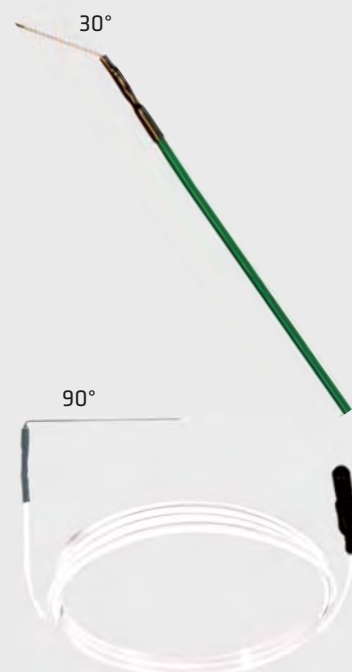
 Touch Proof Ø 1,5 mm DIN 42802

IOM / Disposable Subdermal Needle Electrodes

Monopolar Needle Electrodes

· Made of steel and isolated with teflon

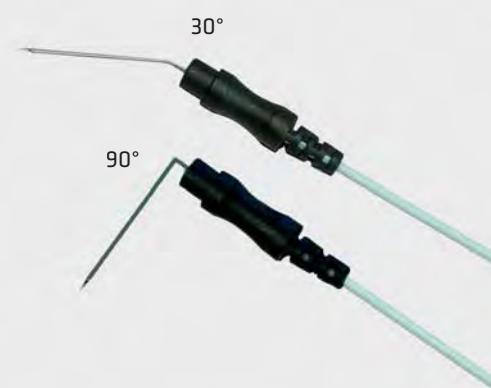
Code	Needle length	Needle Diameter	Cable Length	Pack
30°				
TFDN2620103	20 mm	0,35 mm	100 cm	25 pcs
TFDN2620153	20 mm	0,35 mm	150 cm	25 pcs
TFDN2630103	30 mm	0,35 mm	100 cm	25 pcs
TFDN2630153	30 mm	0,35 mm	150 cm	25 pcs
TFDN2640103	40 mm	0,35 mm	100 cm	25 pcs
TFDN2640153	40 mm	0,35 mm	150 cm	25 pcs
90°				
TFDN2620104	20 mm	0,35 mm	100 cm	25 pcs
TFDN2620154	20 mm	0,35 mm	150 cm	25 pcs
TFDN2630104	30 mm	0,35 mm	100 cm	25 pcs
TFDN2630154	30 mm	0,35 mm	150 cm	25 pcs
TFDN2640104	40 mm	0,35 mm	100 cm	25 pcs
TFDN2640154	40 mm	0,35 mm	150 cm	25 pcs



Bipolar Needle Electrodes

· Made of steel and isolated with teflon

Code	Needle length	Needle Diameter	Cable Length	Pack
30°				
DC39335201H	20 mm	0,35 mm	100 cm	25 pcs
DC39335205H	20 mm	0,35 mm	150 cm	25 pcs
DC39335301H	30 mm	0,35 mm	100 cm	25 pcs
DC39335305H	30 mm	0,35 mm	150 cm	25 pcs
DC39335401H	40 mm	0,35 mm	100 cm	25 pcs
DC39335405H	40 mm	0,35 mm	150 cm	25 pcs
90°				
DC39435201H	20 mm	0,35 mm	100 cm	25 pcs
DC39435205H	20 mm	0,35 mm	150 cm	25 pcs
DC39435301H	30 mm	0,35 mm	100 cm	25 pcs
DC39435305H	30 mm	0,35 mm	150 cm	25 pcs
DC39435401H	40 mm	0,35 mm	100 cm	25 pcs
DC39435405H	40 mm	0,35 mm	150 cm	25 pcs



Disposable MRI and Corkscrew Electrodes / IOM



MRI Subdermal Steel Needle Electrodes

Code	Needle length	Needle Diameter	Cable Length	Pack
MN4013D10SMRI	13 mm	0,40 mm	100 cm	24 pcs
MN4013D15SMRI	13 mm	0,40 mm	150 cm	24 pcs
MN4013D25SMRI	13 mm	0,40 mm	250 cm	24 pcs
MN4018D10SMRI	18 mm	0,40 mm	100 cm	24 pcs
MN4018D15SMRI	18mm	0,40 mm	150 cm	24 pcs
MN4018D25SMRI	18 mm	0,40 mm	250 cm	24 pcs

Pack of cork screw needle electrodes are available in the following colors:



Cork Screw Steel Needle Electrodes

- Our cork screw 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	Description	Pack
MNCS0610DS	100 cm	without umbrella	24 pcs
MNCS0615DS	150 cm	without umbrella	24 pcs
MNCS0625DS	250 cm	without umbrella	24 pcs
MNCSC610DS	100 cm	with umbrella	24 pcs
MNCSC615DS	150 cm	with umbrella	24 pcs
MNCSC625DS	250 cm	with umbrella	24 pcs

Touch Proof Ø 1,5 mm DIN 42802

MRI (Magnetic Resonance Imaging) compatible version see next page



Hook Wire Needle Electrodes

- Steel thread electrodes for intramuscular EMG examination.
- Length of the steel threads is 10 cm and insulated except for the wire tip PTFE.
- The wires are applied to the muscle through a 25g disposable hypodermic needle .
- Wires without connector will be gripped at the and by a alligator clip cable (page 102 + S. 104) or a IOM clamp (page 107).

Code	Polarity	Needle Length	Connector	Pack
DIMW1105030101	monopolar	30 mm	without connector	10 pcs
DIMW1105050101	monopolar	50 mm	without connector	10 pcs
DIMW1105030102	bipolar	30 mm	without connector	10 pcs
DIMW1105050102	bipolar	50 mm	without connector	10 pcs
DIMW11050301P1	monopolar	30 mm	1 mm	10 pcs
DIMW11050501P1	monopolar	50 mm	1 mm	10 pcs
DIMW11050301P2	bipolar	30 mm	1 mm	10 pcs
DIMW11050501P2	bipolar	50 mm	1 mm	10 pcs



IOM/ Disposable Corkscrew Electrodes

Twisted Corkscrew Steel Needle Electrodes

· Our twisted cork screw needle electrodes provide excellent signal recording and effective stimulation on the patient.

Code	Cable Length	Description	Pack
MNCS0610DTS	2 x 100 cm	without umbrella	12 set
MNCS0615DTS	2 x 150 cm	without umbrella	12 set
MNCS0625DTS	2 x 250 cm	without umbrella	12 set
MNCSC610DTS	2 x 100 cm	with umbrella	12 set
MNCSC615DTS	2 x 150 cm	with umbrella	12 set
MNCSC625DTS	2 x 250 cm	with umbrella	12 set

MRI (Magnetic Resonance Imaging) compatible version available on request

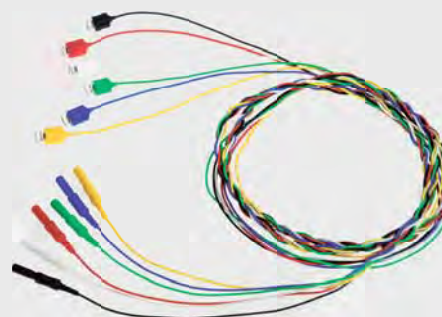


Twisted Corkscrew Steel Needle Electrodes

Code	Cable Length	Pack
MNCS0615DTS	5 x 150 cm	10 set
MNCS0615DTS6	6 x 150 cm	10 pcs

 Touch Proof Ø 1,5 mm DIN 42802

MRI (Magnetic Resonance Imaging) compatible version available on request



MRI Corkscrew Steel Electrodes



· Suitable for recording the EEG signal during magnetic resonance imaging

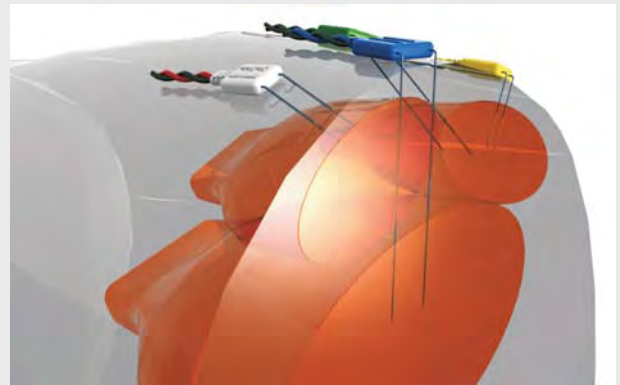
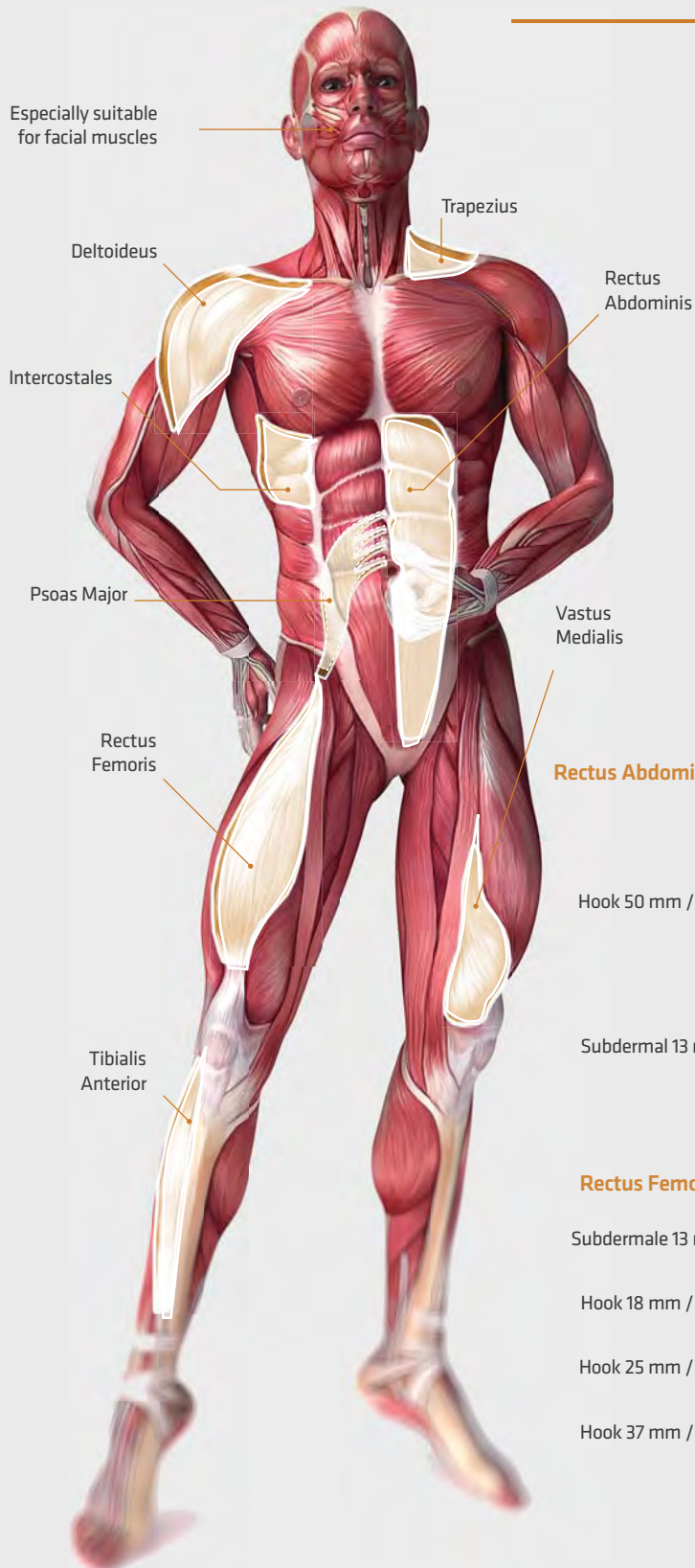
Code	Cable Length	Description	Pack
MNCS0610DS-MRI	100 cm	without umbrella	24 pcs
MNCS0615DS-MRI	150 cm	without umbrella	24 pcs
MNCS0625DS-MRI	250 cm	without umbrella	24 pcs
MNCSC610DS-MRI	100 cm	with umbrella	24 pcs
MNCSC615DS-MRI	150 cm	with umbrella	24 pcs
MNCSC625DS-MRI	250 cm	with umbrella	24 pcs

 Touch Proof Ø 1,5 mm DIN 42802



Hook Needle

Hook Needle Position Scheme



Rectus Abdominis

Hook 50 mm / 30°

Subdermal 13 mm



Rectus Femoris

Subdermal 13 mm

Hook 18 mm / 90°

Hook 25 mm / 90°

Hook 37 mm / 90°



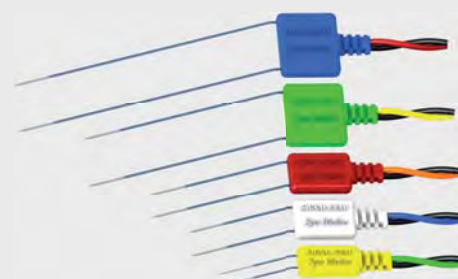
IOM / Disposable Needle Electrodes

Hook Electrodes made of steel

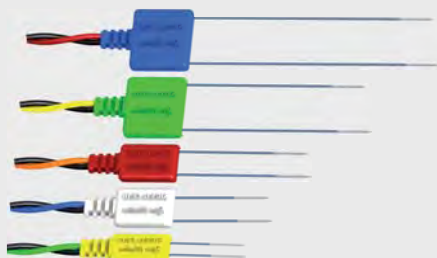
- Predefined electrodes distance for best precision in the application.
- Pair of intramuscular electrodes developed to ensure optimal signal amplitude registration.
- Available in different inclinations to allow optimal positioning of the needle.

Code	Needle Length	Needle Diameter	Electrode Distance	Cable Length	Pack	
Angle 30°						
TFDN351330	13 mm	●	0,35 mm	2,5 mm	100 cm	10 pcs
TFDN351331	13 mm	●	0,35 mm	2,5 mm	150 cm	10 pcs
TFDN351333	13 mm	●	0,35 mm	2,5 mm	250 cm	10 pcs
TFDN451830	18 mm	○	0,45 mm	5 mm	100 cm	10 pcs
TFDN451831	18 mm	○	0,45 mm	5 mm	150 cm	10 pcs
TFDN451833	18 mm	○	0,45 mm	5 mm	250 cm	10 pcs
TFDN452530	25 mm	●	0,45 mm	5 mm	100 cm	10 pcs
TFDN452531	25 mm	●	0,45 mm	5 mm	150 cm	10 pcs
TFDN452533	25 mm	●	0,45 mm	5 mm	250 cm	10 pcs
TFDN453730	37 mm	●	0,45 mm	10 mm	100 cm	10 pcs
TFDN453731	37 mm	●	0,45 mm	10 mm	150 cm	10 pcs
TFDN453733	37 mm	●	0,45 mm	10 mm	250 cm	10 pcs
TFDN455030	50 mm	●	0,45 mm	10 mm	100 cm	10 pcs
TFDN455031	50 mm	●	0,45 mm	10 mm	150 cm	10 pcs
TFDN455033	50 mm	●	0,45 mm	10 mm	250 cm	10 pcs

Code	Needle Length	Needle Diameter	Electrode Distance	Cable Length	Pack	
Angle 90°						
TFDN351340	13 mm		0,35 mm	2,5 mm	100 cm	10 pcs
TFDN351341	13 mm		0,35 mm	2,5 mm	150 cm	10 pcs
TFDN351343	13 mm		0,35 mm	2,5 mm	250 cm	10 pcs
TFDN451840	18 mm		0,45 mm	5 mm	100 cm	10 pcs
TFDN451841	18 mm		0,45 mm	5 mm	150 cm	10 pcs
TFDN451843	18 mm		0,45 mm	5 mm	250 cm	10 pcs
TFDN452540	25 mm		0,45 mm	5 mm	100 cm	10 pcs
TFDN452541	25 mm		0,45 mm	5 mm	150 cm	10 pcs
TFDN452543	25 mm		0,45 mm	5 mm	250 cm	10 pcs
TFDN453740	37 mm		0,45 mm	10 mm	100 cm	10 pcs
TFDN453741	37 mm		0,45 mm	10 mm	150 cm	10 pcs
TFDN453743	37 mm		0,45 mm	10 mm	250 cm	10 pcs
TFDN455040	50 mm		0,45 mm	10 mm	100 cm	10 pcs
TFDN455041	50 mm		0,45 mm	10 mm	150 cm	10 pcs
TFDN455043	50 mm		0,45 mm	10 mm	250 cm	10 pcs



Disposable Needle Electrodes / IOM



Code	Needle Length	Needle Diameter	Electrode Distance	Cable Length	Pack	
Angle 0°						
TFDN351300	13 mm	●	0,35 mm	2,5 mm	100 cm	10 pcs
TFDN351301	13 mm	●	0,35 mm	2,5 mm	150 cm	10 pcs
TFDN351303	13 mm	●	0,35 mm	2,5 mm	250 cm	10 pcs
TFDN451800	18 mm	○	0,45 mm	5 mm	100 cm	10 pcs
TFDN451801	18 mm	○	0,45 mm	5 mm	150 cm	10 pcs
TFDN451803	18 mm	○	0,45 mm	5 mm	250 cm	10 pcs
TFDN452500	25 mm	●	0,45 mm	5 mm	100 cm	10 pcs
TFDN452501	25 mm	●	0,45 mm	5 mm	150 cm	10 pcs
TFDN452503	25 mm	●	0,45 mm	5 mm	250 cm	10 pcs
TFDN453700	37 mm	●	0,45 mm	10 mm	100 cm	10 pcs
TFDN453701	37 mm	●	0,45 mm	10 mm	150 cm	10 pcs
TFDN453703	37 mm	●	0,45 mm	10 mm	250 cm	10 pcs
TFDN455000	50 mm	●	0,45 mm	10 mm	100 cm	10 pcs
TFDN455001	50 mm	●	0,45 mm	10 mm	150 cm	10 pcs
TFDN455003	50 mm	●	0,45 mm	10 mm	250 cm	10 pcs

Disposable Laryngeal Electrodes / IOM



LSE3446MCP075



LSE3446MCA075



LSE4246MCA075

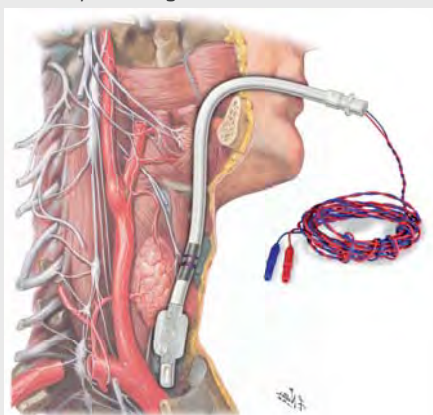


LSE3463DCA200



LSE4263DCA200

Correct positioning of the electrode



Dragonfly – Adhesive Laryngeal Electrodes

- The Dragonfly electrode is made of soft material to avoid any risk of injury while inserting the tube.
- Can be applied on any reinforced endotracheal tube.

Code	Channels N°	ET Tube Diameter	Cable Length	Pack
LSE3446MCP075	1	2.0-5.5 mm	75 cm	10 pcs
LSE3446MCA075	1	6.0-7.0 mm	75 cm	10 pcs
LSE4246MCA075	1	7.5-10.0 mm	75 cm	10 pcs
LSE3463DCA200	2	6.0-7.5 mm	200 cm	10 pcs
LSE4263DCA200	2	8.0-9.5 mm	200 cm	10 pcs
Touch Proof Ø 1,5 mm DIN 42802				

IOM / Disposable Laryngeal Electrodes

Integrated Laryngeal Electrodes

- The integrated endotracheal tube is a technological innovation as the electrodes are directly integrated into the surface of the tube.
- Large electrode area facilitates placement on the vocal cords.

Code	Channels N°	ET Tube Diameter	Cable Length	Pack
LSEPD-1-6-5	1	6 mm	200 cm	5 pcs
LSEPD-1-7-5	1	7 mm	200 cm	5 pcs
LSEPD-1-8-5	1	8 mm	200 cm	5 pcs
 Touch Proof Ø 1,5 mm DIN 42802				
LSEPD-2-6-5	2	6 mm	200 cm	5 pcs
LSEPD-2-7-5	2	7 mm	200 cm	5 pcs
LSEPD-2-8-5	2	8 mm	200 cm	5 pcs
 Touch Proof Ø 1,5 mm DIN 42802				



Integrated Laryngeal Electrodes

- Armed version.

Code	Channels N°	ET Tube Diameter	Cable Length	Pack
LSEPA01	1	6 mm	200 cm	5 pcs
LSEPA02	1	7 mm	200 cm	5 pcs
LSEPA03	1	8 mm	200 cm	5 pcs
 Touch Proof Ø 1,5 mm DIN 42802				
LSEPA05	2	6 mm	200 cm	5 pcs
LSEPA06	2	7 mm	200 cm	5 pcs
LSEPA07	2	8 mm	200 cm	5 pcs
 Touch Proof Ø 1,5 mm DIN 42802				



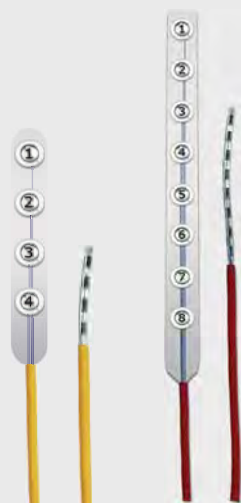
Integrated Laryngeal Electrodes

- Not armed version.

Code	Channels N°	ET Tube Diameter	Cable Length	Pack
LSEP001	1	6 mm	200 cm	5 pcs
LSEP002	1	7 mm	200 cm	5 pcs
LSEP003	1	8 mm	200 cm	5 pcs
 Touch Proof Ø 1,5 mm DIN 42802				
LSEP005	2	6 mm	200 cm	5 pcs
LSEP006	2	7 mm	200 cm	5 pcs
LSEP007	2	8 mm	200 cm	5 pcs
 Touch Proof Ø 1,5 mm DIN 42802				



Strip Electrodes / IOM



Strip Electrodes without plug

- 3 mm recording points with 10 mm distance and 200 cm connecting cable without plug.

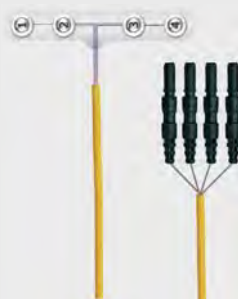
Code	Description	Material	Pack
TS0214-E1W0	1 x 2 recording points	steel	1 pc
TS0414-E1W0	1 x 4 recording points	steel	1 pc
TS0614-E1W0	1 x 6 recording points	steel	1 pc
TS0814-E1W0	1 x 8 recording points	steel	1 pc
TP0214-E1W0	1 x 2 recording points	platinum	1 pc
TP0414-E1W0	1 x 4 recording points	platinum	1 pc
TP0614-E1W0	1 x 6 recording points	platinum	1 pc
TP0814-E1W0	1 x 8 recording points	platinum	1 pc



Strip Electrodes with plug

- 3 mm recording points with 10 mm distance and 200 cm connecting cable with 1,5mm DIN plug.

Code	Description	Material	Pack
TS0214-E726	1 x 2 recording points	steel	1 pc
TS0414-E726	1 x 4 recording points	steel	1 pc
TS0614-E726	1 x 6 recording points	steel	1 pc
TS0814-E726	1 x 8 recording points	steel	1 pc
TP0214-E726	1 x 2 recording points	platinum	1 pc
TP0414-E726	1 x 4 recording points	platinum	1 pc
TP0614-E726	1 x 6 recording points	platinum	1 pc
TP0814-E726	1 x 8 recording points	platinum	1 pc



Strip Electrodes with plug

- 3 mm recording points with 10 mm distance and 200 cm connecting cable with 1,5mm DIN plug.

Code	Description	Material	Pack
TSQ0414-E726	1 x 4 recording points	steel	1 pc
TPQ0414-E726	1 x 4 recording points	platinum	1 pc

IOM / Grid Electrodes

Grid Electrodes without plug

- 3 mm recording points with 10 mm distance and 200 cm connecting cable with 1,5mm DIN plug.

Code	Description	Material	Pack
GS1613-4E1W0	1 x 16 recording points	steel	1 pc
GP1613-4E1W0	1 x 16 recording points	platinum	1 pc



Grid Electrodes without plug

- 3 mm recording points with 10 mm distance and 200 cm connecting cable with 1,5mm DIN plug.

Code	Description	Material	Pack
GS3213-4E2W0	1 x 32 recording points	steel	1 pc
GP3213-4E2W0	1 x 32 recording points	platinum	1 pc



Grid Electrodes without plug

- 3 mm recording points with 10 mm distance and 200 cm connecting cable with 1,5mm DIN plug.

Code	Description	Material	Pack
GS6413-8E8W0	1 x 64 recording points	steel	1 pc
GP6413-8E8W0	1 x 64 recording points	platinum	1 pc



In Line Cable for Grid Electrodes

- for Electrodes with 4 - 16 contacts.
- with 200 cm cable and 1,5 mm DIN plug.

Code	Description	Pack
KPI-04-726	4 contacts	1 pc
KPI-06-726	6 contacts	1 pc
KPI-08-726	8 contacts	1 pc
KPI-16-726	16 contacts	1 pc





Sphenoidal electrode

- Sphenoidal electrode is used together with surface electrodes.

Code	Description	Material	Pack
TS01X1-E426	Crimped version	steel	1 pc
TP01X1-E426	Crimped version	platinum	1 pc
TS01X3-E426	Non crimped version	steel	1 pc
TP01X3-E426	Non crimped version	platinum	1 pc

Depth electrode

- First recording surface on the depth electrode is located on the tip of the electrode.
 - The distance is measured from centre point to centre point of the electrode.
- EEG Depth electrode is made of platinum.



Code	Recording Area / Distance	No. Electrodes	Pack
DP040X-E1W0	2 mm / 5 mm	4	1 pc
DP060X-E1W0	2 mm / 5 mm	6	1 pc
DP080X-E1W0	2 mm / 5 mm	8	1 pc
DP100X-E1W0	2 mm / 5 mm	10	1 pc
DP041X-E1W0	5 mm / 10 mm	4	1 pc
DP061X-E1W0	5 mm / 10 mm	6	1 pc

s EEG Depth electrode

- Small diameter of 0,8 mm, recording surface 2 mm.
 - The distance is measured from centre point to centre point of the electrode.
- s EEG Depth electrode is made of platinum.

Code	Recording Area / Distance	No. Electrodes	Pack
DP081X-E1W0	2 mm / 3,5 mm	8	1 pc
DP101X-E1W0	2 mm / 3,5 mm	10	1 pc
DP121X-E1W0	2 mm / 3,5 mm	12	1 pc
DP161X-E1W0	2 mm / 3,5 mm	16	1 pc

IOM / Ear Plugs and Accessories

Foam Earplugs

- Earplugs available in two different colours and diameters.

Code	Diameter	Colour	Pack
1700-9604	13 mm	yellow	50 pcs
1700-9605	10 mm	beige	50 pcs



Disposable Ear Electrodes

- Gold Foil electrode and ear plug all in one.

Code	Diameter	Colour	Pack
ENT-10-R0	10 mm	gold foil	20 pcs
ENT-13-R0	13 mm	gold foil	20 pcs



Ear Plug

- 4 mm ear piece flanged. Latex free.

Code	Diameter	Colour	Pack
ENT-04-F-R	4 mm flange	red	25 pcs



Ear Plug

- Ear Plug fits for ear canal of children

Code	Diameter	Colour	Pack
ENT-03-II	3,5 mm	red	10 pcs



Ear Plugs and Accessories / IOM



Ear Plug

· Available in different colors and sizes.

Code	Diameter	Colour	Pack
ENT-09-P-G	9 mm - fungus	green	25 pcs
ENT-10-S-B	10 mm - umbrella	blue	25 pcs
ENT-12-P-Y	12 mm - fungus	yellow	25 pcs
ENT-15-P-B	15 mm - fungus	blue	25 pcs
ENT-15-S-R	15 mm - umbrella	red	25 pcs
ENT-19-P-Y	19 mm - fungus	yellow	25 pcs
ENT-19-S-B	19 mm - umbrella	blue	25 pcs



Ear Plug Adapter

· Use earplugs with your headphones.
· No distortion of the stimuli.

Code	Colour	Pack
ENT-ADT	transparent	6 pcs



Sound Tubes

· 50 Ohm sound tubes are used to replace defective tubes.

Code	Colour	Pack
1700-9688	blue/red	6 pcs



Sound Tube Adapter

Code	Colour	Pack
1700-9686	white	10 pcs

NEURO.FLUID.
PASTES - GELS - EMULSIONS



Pastes and Gels

Ac Cream

- Highly conductive and adhesive paste for long-lasting EEG recordings.
- Easily removable and washable.

Code	Description	Package	Pack
ACCREAM250V-3	Adhesive and conductive paste	Jar 250 gr	3 pcs
ACCREAM100V	Adhesive and conductive paste	Jar 100 gr	3 pcs
ACCREAM050V	Adhesive and conductive paste	Jar 50 gr	6 pcs



Neurgel

- Highly conductive gel.
- Guarantees low impedance and excellent signal stability.
- Reduces the risk of bridge effect between the electrodes.

Code	Description	Package	Pack
NEURGEL250V-3	Conductive gel	Jar 250 gr	3 pcs
NEURGEL250F-BOX	Conductive gel	Bottle 250 gr	12 pcs
NEURGEL250F	Conductive gel	Bottle 250 gr	1 pc
NEURGEL025T-6	Conductive gel	Tube 25 gr	6 pcs
NEURGEL500V	Conductive gel	Jar 500 gr	1 pc
NEURGEL1000V	Conductive gel	Jar 1000 gr	1 pc



Upgrade

Neurprep

- New formulation suitable for skin preparation before EEG recording.
- Guarantees low impedance.
- Dermatologically tested for the most sensitive skins.

Code	Description	Package	Pack
NPREP120T-3	Degreasing gel	Tube 120 gr	3 pcs
NPREP025T	Degreasing gel	Tube 25 gr	6 pcs



Everi

- Specific product for skin preparation before registration.
- Guarantees low impedance and increased adhesion of the electrode to the skin.

Code	Description	Package	Pack
EVERI160SPE-24	Degreasing gel	Bottle 160 gr	24 pcs
EVERI	Degreasing gel	Bottle 160 gr	1 pcs



Pastes and Gels



Nuprep

· Recommended gel for improving recording quality due to reduced impedance.

Code	Description	Package	Pack
NUPREP-SET	Skin Preparation	Tube 114 gr	3 pcs
NUPREP-BOX	Skin Preparation	Tube 114 gr	50 x 3 pcs
NUPREP-MINI-SET	Skin Preparation	Tube 25 gr	6 pcs



Skin Pure

· Abrasive paste to prepare the skin before an EEG examination.

Code	Description	Package	Pack
SKIN-PURE	Skin Preparation	Tube 135 gr	2 pcs
SKIN-PURE-B	Skin Preparation	Tube 135 gr	5 x 2 pcs



Ten20

· Neurodiagnostic contact paste which does not dry.
· No lumps, no second apply necessary, washable, easy to clean, no residue.

Code	Description	Package	Pack
TEN-20-SET	Adhesive paste	Jar 114 gr	3 pcs
TEN-20-T-SET	Adhesive paste	Tube 114 gr	3 pcs
TEN-20-8-SET	Adhesive paste	Jar 226 gr	3 pcs
TEN-20-BOX	Adhesive paste	Jar 114 gr	50 x 3 pcs
TEN-20-T-BOX	Adhesive paste	Tube 114 gr	50 x 3 pcs
TEN-20-8-BOX	Adhesive paste	Jar 226 gr	25 x 3 pcs



Elefix

· Adhesive and conductive paste for EEG and EP.

Code	Description	Package	Pack
ELEFIX-TS	Adhesive and conductive paste	Tube 180 gr	10 pcs
ELEFIX-S	Adhesive and conductive paste	Jar 400 gr	3 pcs
ELEFIX-T	Adhesive and conductive paste	Tube 180 gr	1 pcs
ELEFIX	Adhesive and conductive paste	Jar 400 gr	1 pcs

Pastes and Gels

Signa Gel

· Electrode gel for use in EEG -EP.

Code	Description	Package	Pack
SIGNA-GEL	Electode gel	Tube 250 gr	1 pc
SIGNA-GEL-S	Electode gel	Tube 250 gr	12 pc



Spectra Gel

· Salt free electrode gel for use in EEG -EP.

Code	Description	Package	Pack
SPECTRA	Electrode gel	Tube 250 gr	1 pc
SPECTRA-S	Electrode gel	Tube 250 gr	12 pcs



Signa Spray

· Electrolyte spray for skin preparation. Biostatic, hypoallergenic, no residue

Code	Description	Package	Pack
SIGNA-SPRAY	Electrolyte spray	Bottle 250 ml	12 pcs



ECI Gel

- For recording with different electro caps.
- To ensure the best possible reduction of the electrode resistance.

Code	Package	Pack
E-9	Jar 480 g	1 pc
E-10	Jar 960 g	1 pc
E-11	Jar 3780 g	1 pc



Pastes and Gels



Tensive

- Tensive is water soluble, immediately conductive and antibacterial.
- For secure attachment of electrodes.

Code	Package	Pack
TENSIVE-1	Tube 100 gr	1 pc
TENSIVE	Tube 100 gr	12 pcs

LIC 2

- For adhesion and conducting during the EEG and PSG examination.

Code	Package	Pack
LIC2-1	Tube 100 gr	1 pc
LIC2-SET	Tube 100 gr	10 pcs

EC-2

- Adhesive and conductive paste that ensures excellent adhesion of the electrode for long EEG recordings.

Code	Description	Package	Pack
SEC-2	Adhesive and conductive paste	Tube 100 gr	10 pcs
EC-2	Adhesive and conductive paste	Tube 100 gr	1 pcs

Synapse

- For NASA developed EEG contact cream.
- Especially for routine check up and long term monitoring.

Code	Description	Package	Pack
SYNAPSE	Contact creme	Bottle 140 gr	1 pc
SYNAPSE-S	Contact creme	Bottle 140 gr	12 pcs

Signa Creme

- EEG contact creme to reduce skin contact resistance.
- No adhesive effect.

Code	Description	Package	Pack
SIGNA-CREME	Contact creme	Bottle 142 gr	1 pc
SIGNA-CREME-S	Contact creme	Bottle 142 gr	12 pcs

Pastes and Gels

Collodion

- Adhesive paste for long-lasting EEG recordings.

Code	Description	Package	Pack
COLLODION-5	High viscosity adhesive paste	Tube 6,5 ml	20 pcs



Rinsing Solution

Code	Package	Pack
9348035-SET	Bottle 1000 ml	6 pcs



OneStep

- Long conductivity and low measuring resistance.
- Without fat and alcohol.
- Skin-friendly and odorless.
- The abrasive gel has a stronger grain size and a firm consistency.

Code	Description	Package	Pack
10-100	EEG Conductive Gel	Tube 120 g	1 pc
10-200	Abrasive Conductive Gel	Tube 120 g	1 pc



Ivory

- Lotion for cleaning the EEG headcap.

Code	Description	Package	Pack
E-16-F	Emulsion	Bottle 700 ml	1 pc



Adhesive Remover

- The acetone-free Collodion remover for sensitive skin is well tolerated.
- It also contains no other toxic substances and is water-soluble.

Code	Description	Package	Pack
MD0013-P	Remover	Bottle 500 ml	1 pc



Pastes and Gels



Gigasept

· Liquid disinfectant with cleaning effect.

Code	Description	Package	Pack
GIGASEPT-FFNeu-2L	Disinfectant	Bottle 2 L	1 pc
GIGASEPT-FFNeu-5L	Disinfectant	Container 5 L	1 pc



Korsorex Plus

· Fluid disinfectant without aldehydes

Code	Description	Package	Pack
KORSOLEX-PLUS-2L	Disinfectant	Bottle 2 L	1 pc
KORSOLEX-PLUS-5L	Disinfectant	Container 5 L	1 pc

Product Information

Test review regarding CT-suitable pastes and gels

Due to frequent requests we have checked the CT-suitability of our pastes and gels in extensive tests.

We would like to provide these results to you:



Ten20
Conductive paste

not visible,
no artefacts



Neurgel
Saline gel

inappropriate,
artefacts



ELEFIX
Conductive paste

visible,
no artefacts



Ac Cream
Conductive paste

visible,
no artefacts



SYNAPSE
Conductive creme

visible,
no artefacts



EC-2
Conductive creme

inappropriate,
artefacts



GVB-SPES provide a wide range of Polysomnography transducers, characterized by excellent signal precision and maximum long-lasting quality over time.

- Disposable Sensors
- Reusable Sensors
- Airflow Cannulas

Piezocrystal - Effort Sensor

- Piezocrystal is suspended in a small case. This method enables exact, reliable signals.
- The sensor is equipped with a double buckle or double sling.
- The sensor can be fixed with a double buckle (belt clip R53-1350) or double loop (R53-1340/1341). These can be found on page 152.

Code	Description	Details	Pack
R53-1370	Single sensor	Buckle	1 pc
R53-1370-KIT	Sensor with belt	Buckle	1 kit
R53-1397	Single sensor ALICE 3	Buckle	1 pc
R53-1397-KIT	Sensor ALICE 3 with belt	Buckle	1 kit
R53-1390	Sensormedics	Buckle	1 pc
R53-1387	Single sensor	Sling	1 pc
R53-1387-KIT	Sensor with belt	Sling	1 kit

 Touch Proof Ø 1,5 mm DIN 42802



Piezocrystal - Effort Sensor

- Piezo-crystal sensor is equipped with a velcro strap and can be applied to a velcro strap R53-... (see page 152) by its velcro fasteners.

Code	Size	Pack
R53-1388	Single sensor	1 pc
R53-1388-KIT	Single sensor with belt	1 kit

 Touch Proof Ø 1,5 mm DIN 42802



Piezofilm Breathing Effort Sensor

- Piezofilm sensors are used to measure the breathing of chest and abdominal.
- The sensor has a piezoelectric film which produced low voltage while the expansion.
- The sensor is fixed by a Velcroband R53-1340 / 1341 (see page 152).

Code	Description	Size	Pack
R53-1389	Sensor	Adult	1 pc
R53-1389_KIT	Sensor with belt 173 cm	Adult	1 kit

 Touch Proof Ø 1,5 mm DIN 42802





Reusable Respiratory Effort Sensor

Upgrade

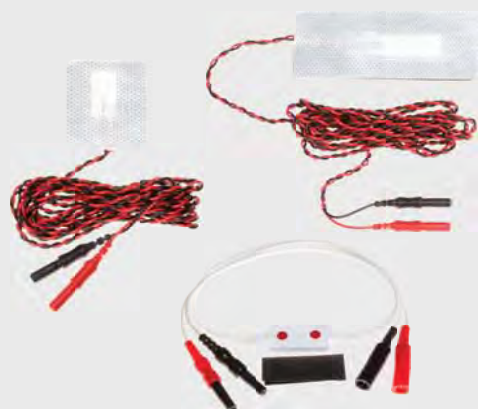
- Band is made with elastic and comfortable materials for increased patient comfort.
- Piezoelectric sensor.

Code	Model	Size	Pack
RESPA00000	Abdomen/Chest	Adult	1 pc
RESPP00000	Abdomen/Chest	Pediatric	1 pc
 Touch Proof Ø 1,5 mm DIN 42802			
Cable Length 200 cm			

Disposable Respiratory Effort Sensor

- Higher comfort during sleep recording by fixing without straps.
- Outstanding adhesive properties prevent slipping during recording.
- Sensors are attached directly on the body.

Code	Model	Size	Pack
RESPA000200	Abdomen/Chest	Adult	5 pcs
RESPP000200	Abdomen/Chest	Pediatric	5 pcs
 Touch Proof Ø 1,5 mm DIN 42802			
Cable Length 200 cm			



Code	Description	Cable Length	Pack
BMDS00260R	Connection Cable for Disposable Respiratory Effort Sensor	60 cm	1 pc

- Compatible with all device connections
- Lightweight flexible material, comfortable for the patient
- Washable, sterilizable and autoclavable
- 6 different color codings for all patient sizes
- Minimum life expectancy up to 50 applications



Inductive Breathing Belt

- The principle of these breathing straps is based on the fact that the sensors with a wire that is flooded with a current.
- Stretching the ligaments while breathing changes the induction field.

Code	Length	Color	Pack
R53-9002-L20	20 cm	white	1 pair
R53-9002-L40	40 cm	white	1 pair
R53-9002-L60	60 cm	white	1 pair
R53-9002-L90	90 cm	white	1 pair
R53-9002-L120	120 cm	white	1 pair
R53-9002-L150	150 cm	white	1 pair
R53-9003-L20	20 cm	blue	1 pair
R53-9003-L40	40 cm	blue	1 pair
R53-9003-L60	60 cm	blue	1 pair
R53-9003-L90	90 cm	blue	1 pair
R53-9003-L120	120 cm	blue	1 pair
R53-9003-L150	150 cm	blue	1 pair

Multi RIP - Inductive Connection Module

- Multi RIP SUM channel system to measure the thoracic and abdominal effort signal.
- To provide accurate and reliable respiratory effort signals.
- With the chest and abdominal cable sets of this Multi-RIP connection module, almost every PSG-system can be connected to the inductive bands.
- The Multi-RIP module kit includes: 1 Multi-RIP module, 1 cable set (chest), 1 cable set (abdominal) and 1 SUM-canal cable set.

Code	Size	Pack
R53-9201-KIT	Modul + 3 cable sets	1 kit
R53-9201	Single Modul	1 pc
R53-9202	Cable set Abdominal (red)	1 pc
R53-9203	Cable set Chest (black)	1 pc
R53-9204	Cable set SUM channel 	1 pc



Inductive Chest Band and Connection Cable

- Chest strap is made of high quality, flexible and soft material.
- Adjustable closure for patients with different chest circumference.
- Inductive Interface Cables connect Inductive Belts to the PSG system
- Designed with durable, yet flexible materials.
- These cables are available for numerous PSG systems and require no calibration.

Code	Model	Connectors	Pack
R53-9010	Inductive Band	Snap	1 pc
R53-9101	Abdomen - Connection Cable	 Ø 1,5 mm	1 pc
R53-9102	Chest - Connection Cable	 Ø 1,5 mm	1 pc
R53-9101-N0	Abdomen - Connection Cable	KeyLog Connector	1 pc



Thermistor Air Flow Sensor with Interfacebox

- Comprising three or four heat sensitive elements, respiration flow sensors are placed under the patient's nostrils and produce a signal that is directly proportional to the temperature changes of air inhaled and exhaled during respiration. SleepSense thermal airflow sensors generate a small analog electrical voltage that provides a clear, reliable indication of respiration airflow. These sensors should be connected to the system's thermal-flow input.

Code	Description	Pack
R74-1450-KIT	Sensor + Interfacebox	1 pc
R74-1450-S	Singel Sensor	1 pc
R74-1450-B	Replacement Interfacebox	1 pc

 Touch Proof Ø 1,5 mm DIN 42802

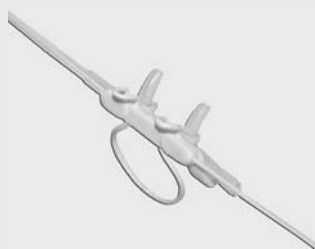




Thermocouple air flow sensor (nasal/oral)

- SleepSense respiration flow sensor produces a signal that is directly proportional to the temperature changes of air inhaled and exhaled during respiration.
- A small voltage is produced if there is a minor temperature change at the thermocouple air flow sensors, which the polygraph detects and records. The thermocouples of the air flow sensors are rugged, steady and generate a continuous breath flow signal.

Code	Description	Pack
R74-1401	Adult, 3 ways	1 pc



Thermocouple air flow sensor (nasal/oral)

- SleepSense thermal airflow sensors generate a small analog electrical voltage that provides a clear, reliable indication of respiration airflow.
- The PTFlow Thermocouple sensor has a hanger that can be easily fixed to a nasal cannula for adults. This sensor can be used simultaneously with a pressure cannula while ensuring patient comfort.

Code	Description	Pack
R74-1401-H	Adult, 3 ways	1 pc



Thermocouple air flow sensor (child)

- The Pediatric Sleep Sense thermocouple airflow sensor was specially designed in terms of stability and comfort for paediatric use. This rugged thermal air flow sensor generates continuous reliable and accurate respiratory signals all night long.

Code	Description	Pack
R74-1401-P	Infant, premature babies	1 pc

 Touch Proof Ø 1,5 mm DIN 42802

PSG / Sensor and Airflow Cannulas

Thermocouple air flow sensor

- Comprising of a single heat sensitive element, the oral respiration-flow sensor is attached onto the pressure cannula under the patient's nose.

Code	Description	Pack
R74-1413	Adult	1 pc

 Touch Proof Ø 1,5 mm DIN 42802

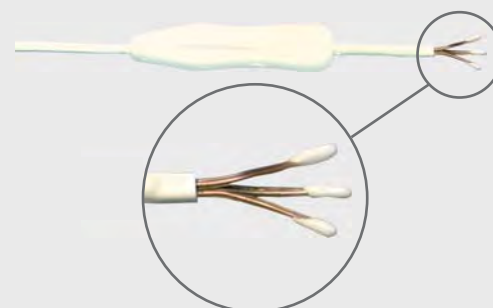


Thermocouple air flow sensor (infant)

- Due to the extra small size of the Thermocouples, a good signal can even be produced by a weaker flow .
- Designed for infants and premature babies to monitor the air stream.

Code	Description	Pack
R74-1400	Infant, pre born babies	1 pc

 Touch Proof Ø 1,5 mm DIN 42802



Reusable Airflow Thermal Sensor

- Overmoulded in soft plastic probes for oral/nasal breathing recording.
- Made of flexible materials developed to ensure optimized patient comfort.

Code	Model	Size	Pack
AIRFA00300	Airflow 3 ways	Adult	1 pc
AIRFP00300	Airflow 3 ways	Pediatric	1 pc
AIRFN00300	Airflow 3 ways	Neonatal	1 pc

 Touch Proof Ø 1,5 mm DIN 42802

Cable Length 200 cm

Available in 1 way, 2 ways or divided ways



Bands, Sensor and Airflow Cannulas / PSG



Disposable Airflow Thermal Sensor

Code	Model	Size	Pack
AIRFA0030D	Airflow 3 ways	Adult	3 pcs
Touch Proof Ø 1,5 mm DIN 42802			
Cable Length 200 cm			



Thermistor Air Flow Sensor

· Sensors are designed with a hanger on the back to firmly hold a pressure cannula in place. The sensor should be connected to the system's thermal-flow input.

Code	Description	Pack
R74-1459-H	Alice 3 Sensor PTFLOW, adult	1 pc
R74-1459	Alice 3 Sensor, adult	1 pc
R74-1460	Alice 4 Sensor, adult	1 pc
R74-1461-H	Alice 5 Sensor PTFLOW, adult	1 pc
R74-1461	Alice 5 Sensor, adult	1 pc
Touch Proof Ø 1,5 mm DIN 42802		

Nasal Cannula

· Sleepsense cannulas provide flexible, narrow tubing to increase overall accuracy of the pressure flow signal.
· The cannulas are available for adults and pediatric.



Code	Size	Description	Cable Length	Pack
R74-15805	Adult	without filter	214 cm	5 pcs
R74-15805-FT	Adult	with filter	214 cm	5 pcs
R74-15805-2	Adult	without filter	61 cm	5 pcs
R74-15805-2-FT	Adult	with filter	61 cm	5 pcs
R74-15804	Pediatric	without filter	214 cm	5 pcs
R74-15804-FT	Pediatric	with filter	214 cm	5 pcs
R74-15804-2	Pediatric	without filter	61 cm	5 pcs
R74-15804-2-FT	Pediatric	with filter	61 cm	5 pcs

PSG / Sensors and Airflow Cannulas

Thermocouple air flow sensor (child)

- The AC Pressure + Snore Sensor is equipped with two outputs to monitor snore and pressure simultaneously.
- With it's very small internal volume, the output signal exactly follows pressure trends even with a small lumen cannula.
- The pressure sensor plus has three sensitivity levels for the snore and air flow measuring.
- This sensor is great for use with CPAP titration.

Code	Description	Pack
R74-14830	Single Sensor	1 pc
R74-14830-KIT	Single Sensor + 5 breath cannulas	1 kit

 Touch Proof Ø 1,5 mm DIN 42802

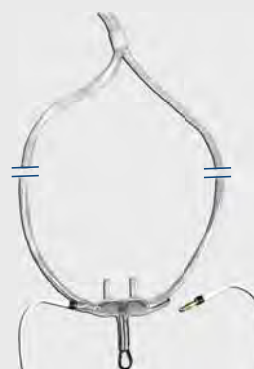


Thermocan

- Thermocan is designed with integrated thermistor that allows a high quality recording of thermal flow and pressure monitoring.
- The device is disposable and complies with current AASM standards for nasal and oral/nasal thermal flow monitoring.

Code	Size	Cable Length	Pack
R74-15807	Adult	210 cm	5 pcs
R74-15807-2	Adult	60 cm	5 pcs

Code	Description	Cable Length	Pack
R74-1475	Connection Cable	200 cm	1 pc



Multi Press with Output Cables

- The Multi-Press is equipped with a calibrated DC pressure output as well as AC flow and snore channels.
- This sensor automatically turns on when breathing is detected and automatically shuts off if breathing is not detected for 5 minutes.
- The AC flow and snore sensitivities are adjustable through digital control over 5 levels and the unit has capability to monitor either positive or negative pressure.
- This sensor is great for use with CPAP titration.

Code	Description	Pack
R74-14840-KIT	Multi Press, AC + DC cable	1 pc
R74-14843-KIT	Multi Press, AC + DC cable (Alice 3)	1 pc



Piezo Movement Sensor

- Limb Movement Sensors are strategically strapped to the foot to monitor limbs movements.

Code	Description	Pack
R99-1770-KIT	1 Sensor + 2 Bands	1 kit
R99-1770	Single Sensor	1 pc
R99-1730	Elastic belt (heel)	2 pair

 Touch Proof Ø 1,5 mm DIN 42802





Position Sensor

- In the monitoring of body positions the reality of the position of the sensor relative to the direction of gravity is registered.
- Our position sensors are designed to cover the belly and back position in a wider angle, while the left-and right-sided position of the sensor will be forwarded only when the patient is actually within the confines of a narrow angle on the side.

Code	Description	Pack
R77-1561-KIT	AC Sensor with belt	1 kit
R77-1561	AC Sensor	1 pc
R77-1564-KIT	DC Sensor with belt	1 kit
R77-1564	DC Sensor	1 pc
R77-1575-KIT	DC Sensor with belt 1/8 zoll plug	1 kit
R77-1575	DC Sensor 1/8 zoll plug	1 pc
R77-1566-KIT	Alice 4, DC Sensor with belt	1 pc
R77-1566	Alice 4, DC Sensor	1 pc
R77-1567-KIT	Alice 5, DC Sensor with belt	1 pc
R77-1567	Alice 5, DC Sensor	1 pc

 Touch Proof Ø 1,5 mm DIN 42802



Mini Eye Movement Sensor

- Mini Limp sensor (7 mm) was specifically designed for placement on the eyelids.
- Sensor (20 mm) is an extension of the Limp movement sensor for areas which difficult to reach.

Code	Description	Pack
R99-800	Length 7 mm	1 pc
R99-900	Length 20 mm	1 pc

 Touch Proof Ø 1,5 mm DIN 42802



Tremor Sensor

- Suitable for tremor analysis.
- The device is reusable.

Code	Recorded Signal	Cable Length	Pack
TREM000000	Tremor	200 cm	1 pc

 Touch Proof Ø 1,5 mm DIN 42802

Limb Movement Sensor

- Excellent patient comfort and long-lasting product over time.
- The device is reusable.

Code	Recorded Signal	Cable Length	Pack
LIMB000000	Limb movement	200 cm	1 pc
 Touch Proof Ø 1,5 mm DIN 42802			



Disposable Snoring Sensor

- During the sleep recording several different sensors are mounted on the body of the patient. For reusable sensors the comfort for the patient is not as pleasant, as the sensors must be attached with straps. For this offer to disposable adhesive sensors, because they require no special attachment in the form of belts or else. Our disposable sensors are coated with a thin layer of solid, self-adhesive gel. This gel layer has the same structure as the disposable sensors for TENS. Thanks to their excellent adhesion properties they are firmly respiration sensors on the patient's body and prevent slippage during the recording.

Code	Recorded Signal	Pack
SNOR000200	Snoring	1 pcs
 Touch Proof Ø 1,5 mm DIN 42802		

Code	Description	Cable Length	Pack
BMDS00260S	Connection Cable for Snoring Sensor	60 cm	1 pc



Reusable Snoring Sensor

- Converts snoring noises into an analogue signal.
- Ensures high quality recording in noisy environments.

Code	Recorded Signal	Cable Length	Pack
SNOR000000	Snoring	200 cm	1 pc
 Touch Proof Ø 1,5 mm DIN 42802			



PSG / Bands, Sensor and Airflow Cannulas



Snoring Sensor

- Piezo Sensors provides a signal proportional to the vibrations of the skin.
- Dynamic Sensors provides a signal proportional to the sound intensity.
- Electret Sensors are capacitive capsules powered by the system.
- They offer a wide frequency response and high sensitivity.

Code	Description	Pack
R80-1250	Piezo Sensor	1 pc
R80-1200	Dynamic Sensor	1 pc
R80-1258	Electret Sensor	1 pc
R80-1261	Electret Sensor	1 pc
R80-1262	Piezo Sensor	1 pc

Touch Proof Ø 1,5 mm DIN 42802

Adapter

Code	Description	Pack
R74-14807	Luer to O2 Adapter	5 pc
R74-14808	Male to male Luer Adapter	5 pc

Sensor Tester

- It is possible to test cable breaks and functionality of the sensor.

Code	Description	Pack
R53-5100		1 pc

Straps and Bands

Code	Description	Length	Pack
R53-1340	Velcro Stretch Band	173 cm	1 pc
R53-1341	Velcro Stretch Band	114 cm	1 pc
R53-1342	Velcro Stretch Band	73 cm	1 pc
R53-1343	Velcro Stretch Band	36 cm	1 pc
R53-1350	Stretch Clip Belt	155 cm	1 pc





Due to our long-term experience we were able to support our partner SPES Medica in further development and production of innovative technologies as well as being involved in the development of high quality Defibrillation Pads

- Disposable Electrodes
- Reusable Electrodes
 - Defibrillation Pads
 - Connection Cables

ECG / Reusable Electrodes

Clamp Electrodes

- High recording performance.
- Excellent long-lasting product over time.
- Universal connector for Snap button, 2 and 4 mm plug connectors.

Code	Size	Electrode Material	Pack
CLAG000M	Adult	AgCl	4 pcs
CLAGP00M	Pediatric	AgCl	4 pcs

Nickel version is available on request.

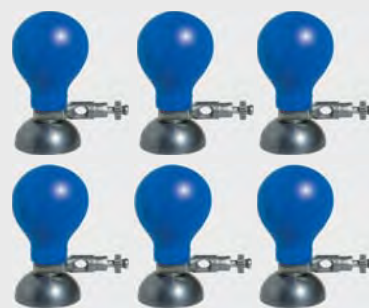


Suction Chest Electrode

- Excellent adhesion to the patients skin.
- High recording performance.
- Universal connector for Snap button, 2 and 4 mm plug connectors.

Code	Electrode Diameter	Electrode Material	Pack
SUAG0015/6	15 mm	AgCl	6 pcs
SUAG0024/6	24 mm	AgCl	6 pcs
SUAG0030/6	30 mm	AgCl	6 pcs

Nickel version is available on request.



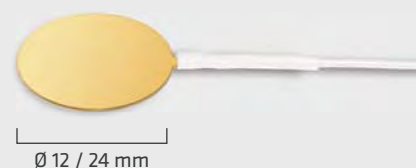
Ø 15 / 24 / 30 mm

Code	Description	Pack
BALL000024	Spare ball parts for Ø 15 mm and 24 mm	6 pcs
BALL000030	Spare ball parts for Ø 30 mm	6 pcs

Disposable Gold Electrodes

- Golden recording surface to ensure high recording quality.
- Moulded cable-electrode connection to ensure excellent duration of the product over time.

Code	Electrode Diameter	Connectors	Pack
2180BSAU/6	12 mm	4 mm socket	6 pcs
2181BSAU/6	24 mm	4 mm socket	6 pcs



Ø 12 / 24 mm

Disposable Electrodes / ECG

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.



Radiolucent

Code	Electrode Diameter	Cable Length	Connectors	Box
CDE02410F4	24 mm	10 cm	4 mm socket	3 pcs per pack 120 pcs per box
CDE03010F4	20 mm	10 cm	4 mm socket	3 pcs per pack 120 pcs per box
CDE02435F4	24 mm	35 cm	4 mm socket	3 pcs per pack 120 pcs per box
CDE03035F4	20 mm	35 cm	4 mm socket	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 socket	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
CDE0306026	20 mm	60 cm	 Ø 1,5 mm	3 pcs per pack 120 pcs per box
CDE03060F4	20 mm	60 cm	4 mm socket	3 pcs per pack 120 pcs per box
CDE0309026	20 mm	90 cm	 Ø 1,5 mm	3 pcs per pack 120 pcs per box
CDER246026	24 mm	60 cm	 Ø 1,5 mm	3 pcs per pack 120 pcs per box
CDER249026	24 mm	90 cm	 Ø 1,5 mm	3 pcs per pack 120 pcs per box
CDER2460F4	24 mm	60 cm	4 mm socket	3 pcs per pack 120 pcs per box
CDES000024	24 mm	/	Snap	25 pcs per pack 500 pcs per box

ECG / Cables and Adapters

Press Stud Cable

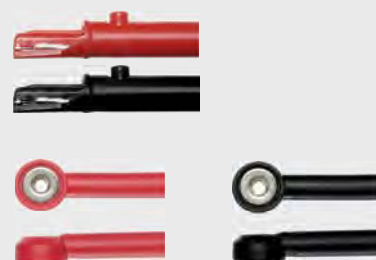
· Connection cable with snap connector

Code	Cable Length	Connectors	Pack
LEAD626S30	60 cm	 Ø 1,5 mm	3 pcs
LEAD626S50	60 cm	 Ø 1,5 mm	5 pcs
LEAD626S70	60 cm	 Ø 1,5 mm	7 pcs
LEAD626S80	60 cm	 Ø 1,5 mm	8 pcs
LEAD062105	60 cm	2 mm socket	5 pcs
LEAD624FS0	60 cm	2 and 4 mm socket	10 pcs
LEAD1024FS0	100 cm	2 and 4 mm socket	10 pcs



Adapters

Code	Description	Connectors	Pack
CROCO4F1	Crocodile adapter	 4 mm socket	5 pcs
CROCO4F2	Crocodile adapter	 4 mm socket	5 pcs
ADPT4FO5S	Adapter cable with snap clip	 4 mm socket	5 pcs
ADPT4FO5S	Adapter cable with snap clip	 4 mm socket	5 pcs
ADPOFOM4	Adapter with snap connection	 Socket/Jack 4 mm	5 pcs



Adapter

Code	Description	Cable Length	Connectors	Pack
ADPL24F0S	Adapter cable with snap clip	8 cm	Socket 2 and 4 mm	5 pcs



Cables and Connections / ECG

10 Channels Patient Cables

Code	Brand	Compatibility	Pack
60.119.130	BTL	All models	1 pc
60.119.143	Cardioline	Delta 1/3/30/60 Delta 1/3/60 Plus Elan 1100	1 pc
60.119.11P	Cardioline	Delta 1/3/30/60 Delta 1/3/60 Plus Elan 1100 Plastic connectors	1 pc
60.119.161	Cardioline	ar600/600adv ar1200/1200adv ar2100adv	1 pc
60.119.134	Cardiette	Autoruler 12/1-12/3 Microruler 12/1-12/3 Microtel Doc 101 Excel 103/106	1 pc
60.119.129	Cardiette	Start 100P/H Start 200/200HV	1 pc
60.119.140	Esaote	Serie P80/P8000	1 pc
60.119.166	Esaote	Archimed 4220 Archiwin	1 pc
60.119.139	Mortara	Eli 100-200-2000 Landscape Portrait	1 pc
60.119.131	Mortara	Eli 250-210-150	1 pc
60.119.142	Schiller	AT1-AT2-AT4-AT5-AT6-AT10-AT60 CS6-CS12-CS100-CS200-CV6-P80	1 pc
60.119.171	Schiller	AT3	1 pc

Available with snap connectors and 4 mm plug connectors



AED / Defibrillation Pads

New

Defibrillation Pads

- The latest generation Hydrogel guarantees excellent adhesion and high electrical conductivity.
- Available in different configurations with different connectors and cable lengths.
- External connector allows for quick impedance checking.

Code	Connector	Pack
DPP001	Schiller	10 pair
* FRED / FRED TELE / DEFIGARD DG 1002 / DEFIGARD DG 3002 / DEFIGARD DG 2000 EDOS		
DPP003	Philips Laerdal Medical Agilent / Philips	10 pair
Heartstream ForeRunner I AED model E, S, EM / Heartstart FR1 AED models 940010XX, 940020XX, 940030XX / Heartstream HeartStart FR2 AED models M3841A, M3861A / Heartstream HeartStart FR2+ AED, -with ECG module, models M3840A / CodeMaster -models M1722A/B, M1723A/B, M1724A, M2475B (with cable Philips M3507A and pad adapter 05-200) / HeartStart MRx model M3535A (with cable Philips M3508A) / Heartstream/HeartStart XL model M4735A (with cable Philips M3508A) / Heartstream/HeartStart XLT model M3500B (with cable Philips M3508A) / Heartstream/HeartStart XL+ model 861290 (with cable Philips M3508A) / Heartstart 4000 model M5500B (with cable Philips M3508A).		
DPP007	Zoll Medical Corp	10 pair
* ZOLL PD 1200 / ZOLL PD 1400 / ZOLL PD 1600 / ZOLL PD 1700 / ZOLL PD 2000 / ZOLL SERIE M - M SERIES / ZOLL SERIE E - E SERIES / ZOLL SERIE R - R SERIES		
DPP011	Medtronic-Physio Control / Osatu Bexen / Cardioline / Mindray	10 pair
* LIFEPAK 9 -connector QUICK-COMBO / LIFEPAK 10 / LIFEPAK 12 / LIFEPAK 15 / LIFEPAK 20 / LIFEPAK 500 AED with grey connector / LIFEPAK 500 AED/with pink connector / LIFEPAK 1000 AED / LIFEPAK CR PLUS AED / LIFEPAK EXPRESS AED		
DPP015	Agilent™ Laerdal Medical / Hewlett-Packard	10 pair
* CODEMASTER 100 / CODEMASTER XE / CODEMASTER XL / CODEMASTER XL+ / HEARTSTREAM XL, XLT e-and XL+, -with cable M3507A / HEARTSTART 4000		
DPP027	CU Medical Systems, Inc	10 pair
* PARAMEDIC CU-ER1 / PARAMEDIC CU-ER2, CU-ER3 / PARAMEDIC CU-ERS with cable E R-5 OA03		
DPP031	CU Medical Systems, Inc / Cmos Drake Progetti	10 pair
* I - PAD NF1200 / FUTURA		
DPP052	Weinmann / Cardiaid	10 pair
* MEDUCORE EASY / CARDIAID CT0207		
DPP064	Schiller	10 pair
* FRED EasyPort / ARGUS PRO LifeCare / ARGUS PRO LifeCare 2 / CARDIOVIT AT-101 Easy		



Schiller



Philips Laerdal Medical
Agilent - Philips



Zoll Medical Corp



Medtronic-Physio Control
Osatu Bexen
Cardioline
Mindray



Agilent™ Laerdal Medical
Hewlett-Packard



CU Medical Systems, Inc



CU Medical Systems, Inc
Cmos Drake Progetti



Weinmann
Cardiaid



Schiller





In this chapter you will find a wide range on high-quality TENS electrical stimulation products.

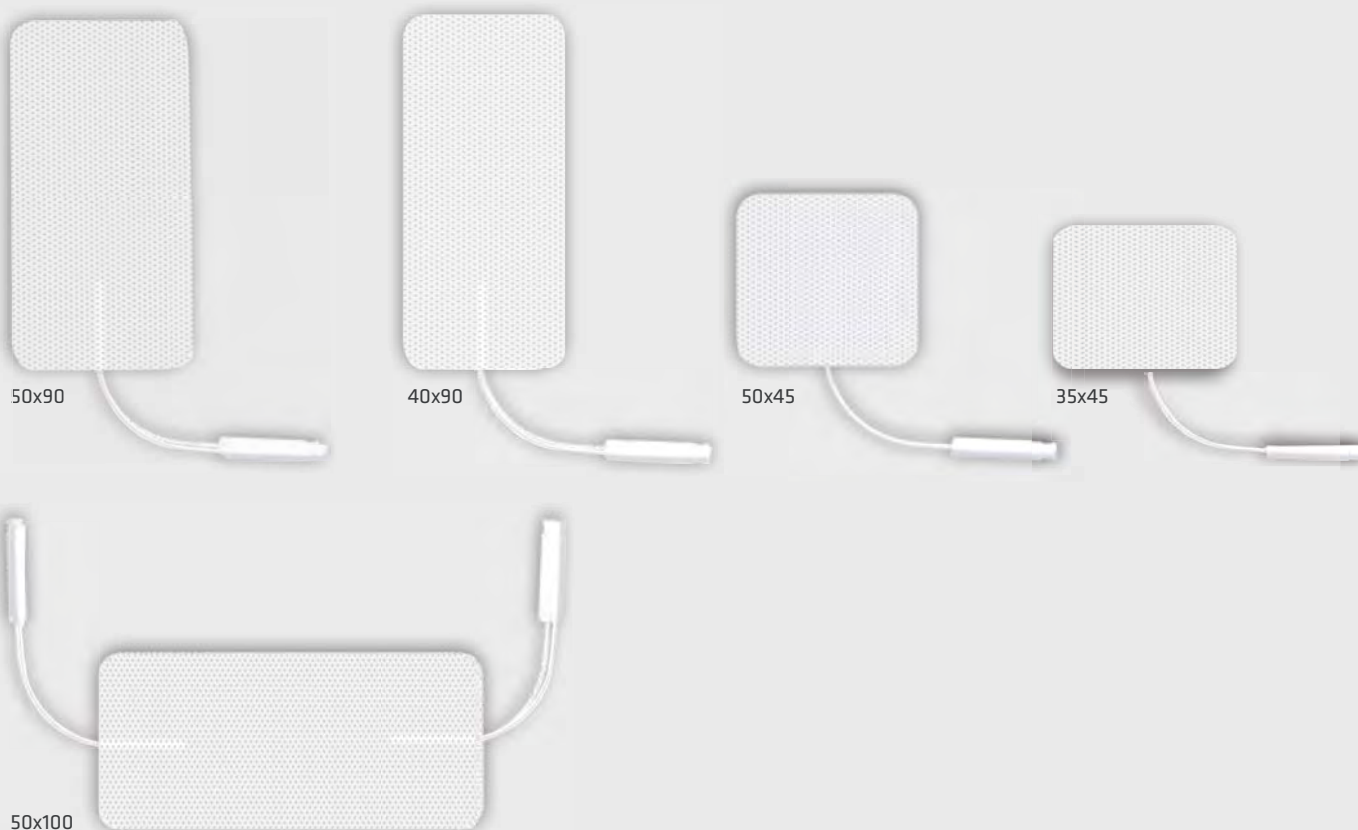
- Disposable Stimulation Electrodes
- Reusable Stimulation Electrodes
- Elastic Bands and Accessories

TENS / Stimulation Electrodes

Disposable Stimulation Electrodes

- Guarantees excellent electrostimulation performance.
- Hydrogel ensures excellent and constant adhesion to the patient's skin. This allows for uniform electrical intensity across the surface of the electrode. Hydrogel also allows repositioning of the electrode without reducing its adhesion.
- Hydrogel is very gentle so it can be applied on every type of skin, even the most sensitive ones.
- Cable length is 8 cm.

Code	Size	Connectors	Pack
TE0N1S3545	35x45 mm	Snap	4 pcs
TE0N1S5045	50x45 mm	Snap	4 pcs
TE0N1S4090	40x90 mm	Snap	4 pcs
TE0N1S5090	50x90 mm	Snap	4 pcs
TE0N1F3545	35x45 mm	2 mm Socket	4 pcs
TE0N1F5045	50x45 mm	2 mm Socket	4 pcs
TE0N1F4090	40x90 mm	2 mm Socket	4 pcs
TE0N1S5090	50x90 mm	2 mm Socket	4 pcs
TE0N2F50100	50x100 mm	2 x 2 mm Socket	4 pcs



Stimulation Electrodes / TENS

Reusable Electrodes

- Made of conductive silicone ensuring a uniform stimulating surface.
- Moulded cable-electrode connection to ensure high resistance during use.
- Available in different configurations with different connectors, including 2 mm and 4 mm universal sockets.



40x60



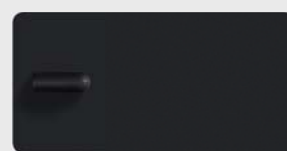
120x80



150x110



80x60



50x100



50x50

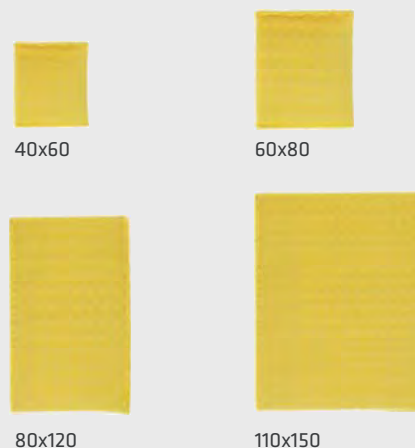
Code	Size	Connectors	Cable Length	Pack
4F00406S	40x60 mm	4 mm socket	16 cm	2 pcs
4F00806S	80x60 mm	4 mm socket	16 cm	2 pcs
4F00128S	120x80 mm	4 mm socket	16 cm	2 pcs
4F01511S	150x110 mm	4 mm socket	16 cm	2 pcs
4M00406S	40x60 mm	4 mm connector	16 cm	2 pcs
4M00806S	80x60 mm	4 mm connector	16 cm	2 pcs
4M00128S	120x80 mm	4 mm connector	16 cm	2 pcs
4M01511S	150x110 mm	4 mm connector	16 cm	2 pcs
24F0406S	40x60 mm	2 and 4 mm socket	16 cm	2 pcs
24F0806S	80x60 mm	2 and 4 mm socket	16 cm	2 pcs
24F0128S	120x80 mm	2 and 4 mm socket	16 cm	2 pcs
24F1511S	150x110 mm	2 and 4 mm socket	16 cm	2 pcs
4M004060	40x60 mm	4 mm connector	/	2 pcs
4M008060	80x60 mm	4 mm connector	/	2 pcs
4M001280	120x80 mm	4 mm connector	/	2 pcs
24F008060	80x60 mm	2 and 4 mm socket	/	2 pcs
24F001280	120x80 mm	2 and 4 mm socket	/	2 pcs
SIL0005050	50x50 mm	2 mm socket	/	4 pcs
SIL0050100	50x100 mm	2 mm socket	/	4 pcs

TENS / Accessories

Sponge Pouch

- Compatible with reusable electrodes.
- The Spontex version guarantees a long-lasting treatment.

Code	Size	Material	Pack
4T004060	40x60 mm	Sponge	10 pcs
4T008060	80x60 mm	Sponge	10 pcs
4T001280	80x120 mm	Sponge	10 pcs
4T0015110	110x150 mm	Sponge	10 pcs
4TS04060	40x60 mm	Spontex	10 pcs
4TS08060	60x80 mm	Spontex	10 pcs
4TS01280	80x120 mm	Spontex	10 pcs
4TS015110	110x150 mm	Spontex	10 pcs



Sponge/Electrodes

Code	Size	Connectors	Pack
SILSP04560	45x60 mm	Snap	4 pcs
SILSP06080	60x80 mm	Snap	4 pcs
SILSP80120	80x120 mm	Snap	4 pcs

Elastic Bands

- Excellent elasticity and comfort for the patient.
- Available in different sizes and thickness.



Code	Description	Size	Pack
BAND0100	Elastic with velcro	10x100 cm	1 pc
BAND0080	Elastic with velcro	10x80 cm	1 pc
BAND0060	Elastic with velcro	10x60 cm	1 pc
BAND0040	Elastic with velcro	10x40 cm	1 pc
BAND08100	Elastic with velcro	8x100 cm	1 pc
BAND08080	Elastic with velcro	8x80 cm	1 pc
BAND08060	Elastic with velcro	8x60 cm	1 pc
BAND08040	Elastic with velcro	8x40 cm	1 pc
BAND03100	Elastic with velcro	3x100 cm	1 pc
BAND03080	Elastic with velcro	3x80 cm	1 pc
BAND03060	Elastic with velcro	3x60 cm	1 pc
BAND03040	Elastic with velcro	3x40 cm	1 pc



RUB04532	Rubber with button	3,2x45 cm	1 pc
RUB13532	Rubber with button	3,2x135 cm	1 pc
RUB00025	Rubber with button	2,5x45 cm	1 pc

Code	Description	Pack
BOTT0000	Replacement buttons	20 pcs



Adapters

Code	Description	Connectors	Pack
CROC01IS	Crocodile adapter	2 mm socket ●	5 pcs
CROC02IS	Crocodile adapter	2 mm socket ●	5 pcs
ADPT2F01	Snap adapter	2 mm socket ●	5 pcs
ADPT2F02	Snap adapter	2 mm socket ●	5 pcs



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