



MEDICAL DIAGNOSTIC PRODUCT WORLD

Product Catalogue



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**Medical
Diagnostic
Accessories**

**Product catalogue
2016/2017**

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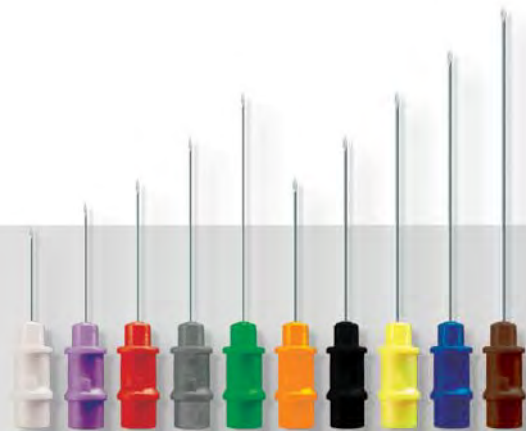
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EMG-Accessories

**EMG electrodes
by professionals -
for professionals**



MYOLINE
xpert premium **XP**

MYOLINE XP Disposable and reusable needles

Concentric bipolar needles are used almost exclusively in Germany for EMG examinations. A thin wire (steel, silver or platinum) is surrounded by an insulating layer, which in turn is enclosed in a cannula. Contractions in the muscle are recorded between the end of the wire and the cannula. The cannula has a substantially lower electrical input resistance than the "core" which only projects from the insulation as the wire end. Despite these unequal input resistance values, trouble-free EMGs are possible.



Disposable needle

Colour	Length	Diameter	Item number	PU
Violet	25mm	0,30mm	D0390302511	25 pcs.
Red	30mm	0,35mm	D039035302	25 pcs.
Grey	40mm	0,35mm	D039035408	25 pcs.
Green	50mm	0,35mm	D039035503	25 pcs.
Orange	30mm	0,45mm	D0390453010	25 pcs.
Black	40mm	0,45mm	D039045401	25 pcs.
Yellow	50mm	0,45mm	D039045504	25 pcs.
Blue	60mm	0,50mm	D039050607	25 pcs.
Brown	70mm	0,60mm	D039060706	25 pcs.

Reusable needle

Colour	Length	Diameter	Item number	PU
White	20mm	0,35mm	R039035205	10 pcs.
Red	30mm	0,35mm	R039035302	10 pcs.
Green	40mm	0,35mm	R039035408	10 pcs.
Green	50mm	0,35mm	R039035503	10 pcs.
Black	40mm	0,45mm	R039045401	10 pcs.
Yellow	50mm	0,45mm	R039045504	10 pcs.
Blue	60mm	0,50mm	R039050607	10 pcs.
Brown	70mm	0,60mm	R039060706	10 pcs.

Connecting cable (needle-holder)

Item details	Comments	Item number	PU
100cm cable	5-chann. DIN plug	10000NNHF	1 pc.
100cm cable	5-chann. DIN plug (Jäger/Tönnies)	1000JTNHF	1 pc.
100cm cable	1.5mm DIN plug	1000SCNHFN	1 pc.
100cm cable	5-chann. 270° plug	10000NNHF3	1 pc.
200cm cable	5-chann. DIN plug	100200NNHF	1 pc.
200cm cable	1.5mm DIN plug	100200SCNHFN	1 pc.
200cm cable	5-chann. DIN plug (Jäger/Tönnies)	100200JTNHF	1 pc.
200cm cable	5-chann. 270° plug	100200NNHF3	1 pc.

The premium needle

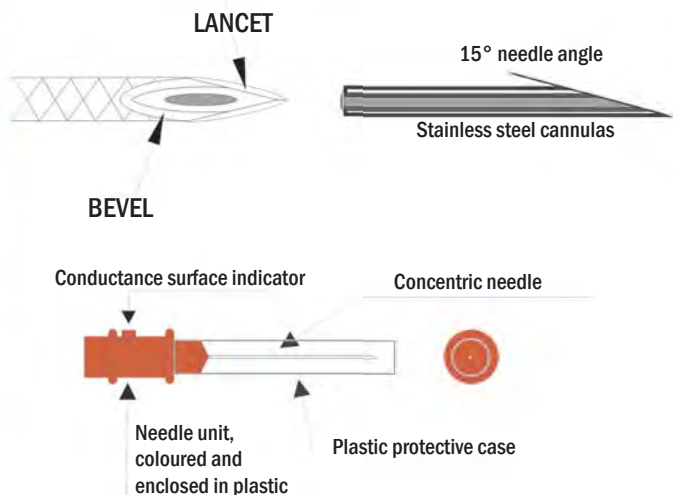
IMPROVED BEVEL
for pain-free insertion

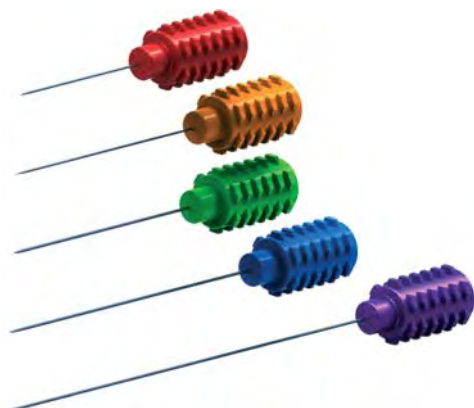
NEW IMPROVED SURFACE FINISH
for better needle gliding characteristics

EVEN MORE FLEXIBLE CONNECTING CABLE
for easier handling

IMPROVED NEEDLE CONNECTION (CONTACT)
for artefact-free measurement

BETTER SIGNAL QUALITY
for high levels of customer satisfaction






Disposable monopolar EMG-needle

Disposable teflon coated needle electrode with 1,5mm DIN plug and 76cm connecting cable.

Needle length	Diameter	Item number	PU
25mm length	0,35mm	TFDN002535	20 pcs.
37mm length	0,35mm	TFDN003735	20 pcs.
37mm length	0,45mm	TFDN003745	20 pcs.
50mm length	0,45mm	TFDN005045	20 pcs.
75mm length	0,45mm	TFDN007545	20 pcs.

Connector  1,5mm DIN plug

Anschlusskabel

Suitable cable for above mentioned disposable monopolar EMG-needles with 1,5mm DIN plug.

Artikeldetails	Bemerkung	Artikelnummer	VE
EMG Kabel	76cm lang	MNH07626	1 St.




with 1,5mm DIN plug

Disposable monopolar EMG needle teflon coated

Teflon coated disposable EMG needle with 120cm connecting cable and 1,5mm DIN plug.

Needle length	Recording area	Item number	PU
15mm length	0,28mm ²	TFDN261500	25 pcs.
25mm length	0,28mm ²	TFDN262500	25 pcs.
37mm length	0,28mm ²	TFDN263700	25 pcs.
37mm length	0,34mm ²	TFDN263745	25 pcs.
50mm length	0,34mm ²	TFDN265045	25 pcs.
75mm length	0,34mm ²	TFDN267545	25 pcs.

Connector  1,5mm DIN plug

Disposable monopolar EMG needle teflon coated

The 15 mm needle serves as a reference, whilst the longer needle is active.

Teflon coated disposable EMG needle with 120cm connecting cable and 1,5mm DIN plug.

Needle length	Recording area	Item number	PU
15mm & 25mm length	0,06mm ² & 0,28mm ²	STFDN-V1	25 pair
15mm & 37mm length	0,06mm ² & 0,28mm ²	STFDN-V2	25 pair
15mm & 37mm length	0,06mm ² & 0,34mm ²	STFDN-V3	25 pair

Reference electrode with large conducting surface for precise results



The expiry date is marked on every pack. We recommend checking the packaging before opening to ensure that the seal or bag is not damaged. Provided the packaging is undamaged, the needles will remain sterile up to the expiry date.

INFO BOX



Wire Needle electrode

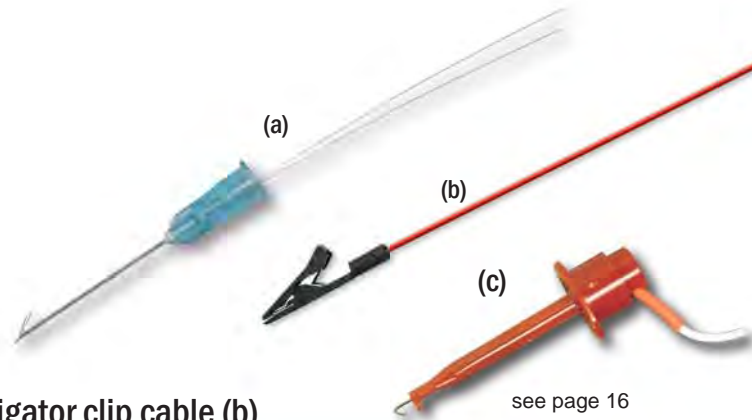
This electrode is a bipolar steel wire electrode, both available monopolar and bipolar. The electrode is used for intramuscular electromyography examinations.

The steel wires are available in a length of 10cm and are - without the wire tip - isolated with PTFE.

The wires are (a) applied to the muscle through a 25g disposable hypodermic needle approx. 0.5mm in diameter and (b) gripped at the end by a aligator clip cable.

PU: 10 pcs. (without aligator clip) (a)

	30mm needle	50mm needle
monopolar	DIMW1105030101	DIMW1105050101
bipolar	DIMW1105030102	DIMW1105050102
1mm connector		
monopolar	DIMW11050301P1	DIMW11050501P1
bipolar	DIMW11050301P2	DIMW11050501P2

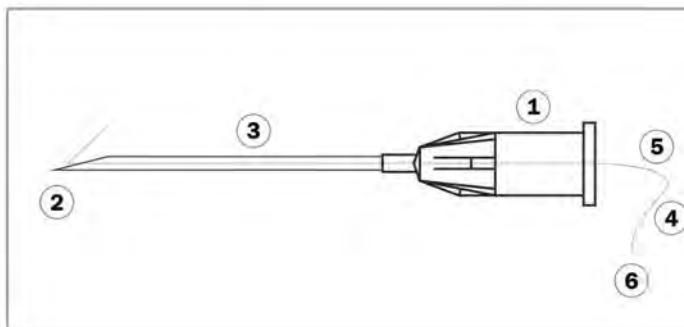


Aligator clip cable (b)

PU: 10 pcs.

see page 16

	100cm cable	150cm cable	200cm cable
red	BEC1026C295	BEC1526C295	BEC2026C295
black	BEC1026C195	BEC1526C195	BEC2026C195
green	BEC1026C395	BEC1526C395	BEC2026C395
Connector	1,5mm DIN plug		



- 1 Disposable hypodermic needle electrode with "Luer" fastening
- 2 Specially tapered needle tip, easy to use and patient-friendly.
- 3 Steel needle with 25 gauge (0.50mm) diameter
- 4 Steel wire with polyethersulfone (PES) insulation
- 5 Wire length 10cm outside needle
- 6 10mm insulation-free wire length at end of steel wire to collect signal.

IOM clamp - Mini IC

56mm total length, 100cm connecting cable and 1,5mm DIN plug.

Item details	Comments	Item number	PU
IOM clamp (single)	red	BEC1026C2M6	1 pc.
IOM clamp (single)	black	BEC1026C1M6	1 pc.
IOM clamp (double)	red / black	1002C1M26F	1 pc.
Connector	1,5mm DIN plug		



ECochG- electrode - reusable

This ECochG electrode is available in 3 lengths with a 90 ° angle and a diameter of 0,35mm. The needle is sharpened concentrically and provides a more comfortable application for the patient. This result in less perceived prick and less blood leakage from the injection.




Item details	Comments	Item number	PU
ECochG - needle 20mm	100cm cable	TFDN2620104	25 St.
ECochG - needle 30mm	100cm cable	TFDN2630104	25 St.
ECochG - needle 40mm	100cm cable	TFDN2640104	25 St.
ECochG - needle 50mm	100cm cable	TFDN2650104	25 St.
ECochG - needle 20mm	150cm cable	TFDN2620154	25 St.
ECochG - needle 30mm	150cm cable	TFDN2630154	25 St.
ECochG - needle 40mm	150cm cable	TFDN2640154	25 St.
ECochG - needle 50mm	150cm cable	TFDN2650154	25 St.
Connector	1,5mm DIN plug		

“BO-TECT” Needle electrode system

These needles have been developed for use in Botox therapies and nerve-blocking treatments. They make it possible to inject botulinum during EMG conductance. These needles are available only in disposable design. The needles are also referred to as Myoject and hypodermic needles.

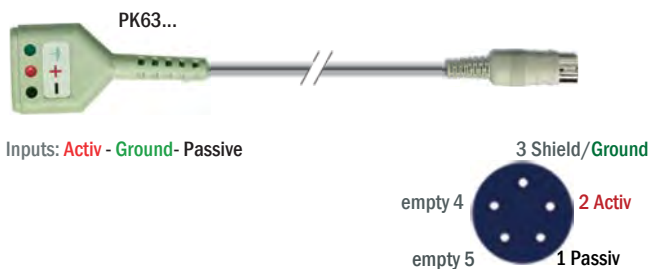


Disposable needle electrodes for botulinum

Item details	Comments	Item number	PU
Length x diameter			
25mm x 0,30mm	Blue	MIOBOT2530	10 pcs.
25mm x 0,40mm	Green	MIOBOT2540	10 pcs.
37mm x 0,45mm	Pink	MIOBOT3745	10 pcs.
50mm x 0,50mm	White	MIOBOT5050	10 pcs.
75mm x 0,70mm	Grey	MIOBOT7570	10 pcs.
Tec-i: Cable length 73cm			
Connector:		1,5mm DIN plug	

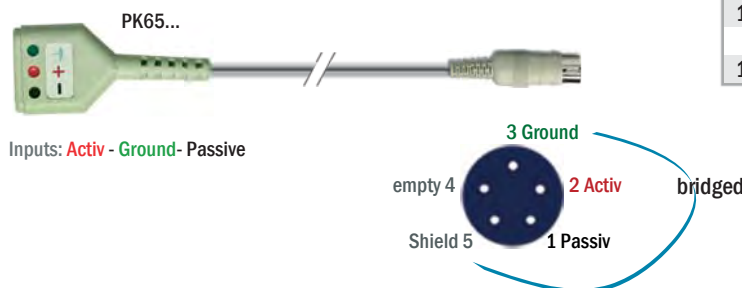


Example of conductance with shielded adapter

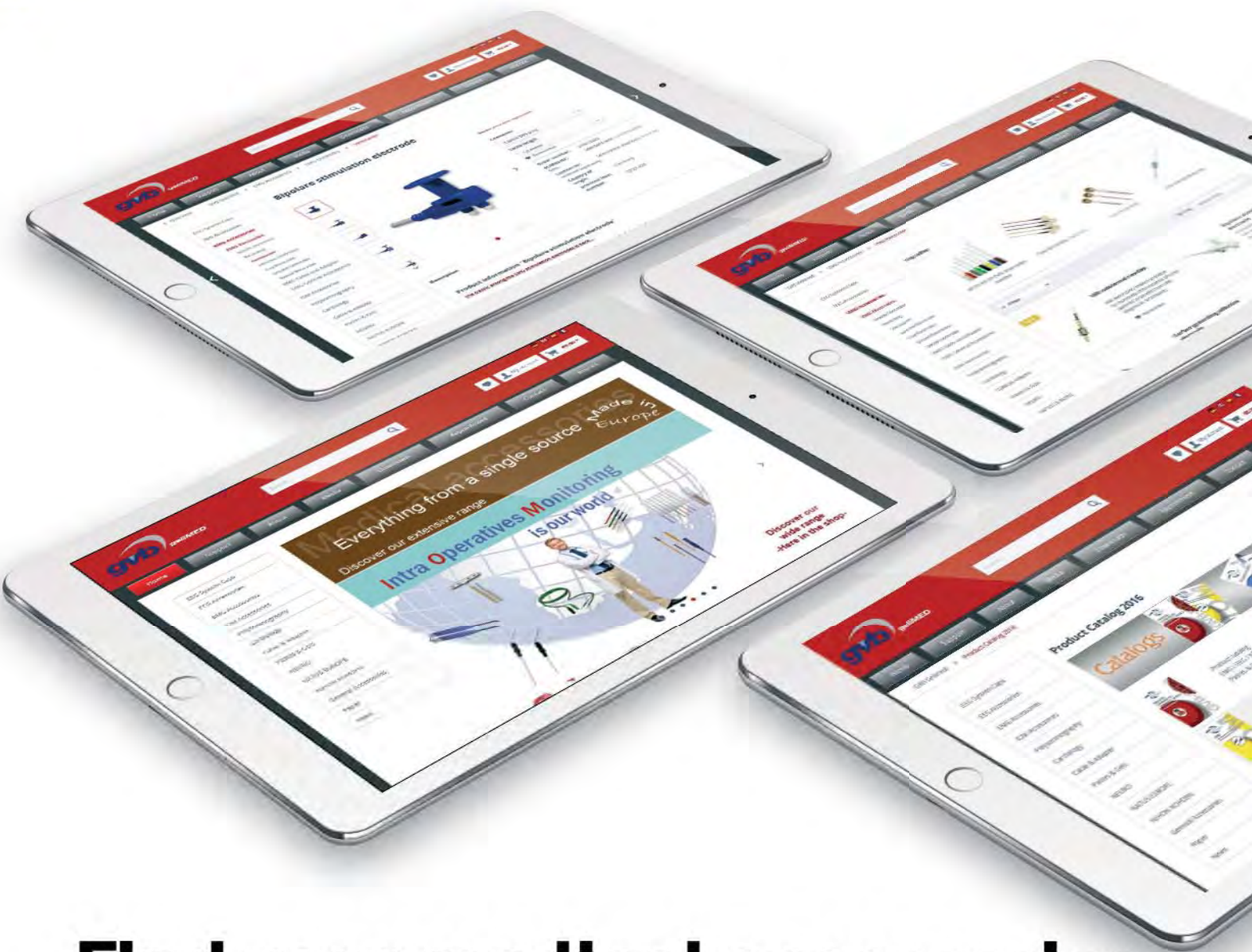


Shielded adapter cable with 5-channel DIN plug

Item details	Comments	Item number	PU
60cm adapter cable	Ground at pos. 5	PK63SH0671	1 pc.
150cm adapter cable	Ground at pos. 5	PK63SH1571	1 pc.
60cm adapter cable	Ground at pos. 3	PK64SH0671	1 pc.
150cm adapter cable	Ground at pos. 3	PK64SH1571	1 pc.



Other plug variations, cable lengths and colours available on request.



**Find your medical accessories
from a huge selection.**

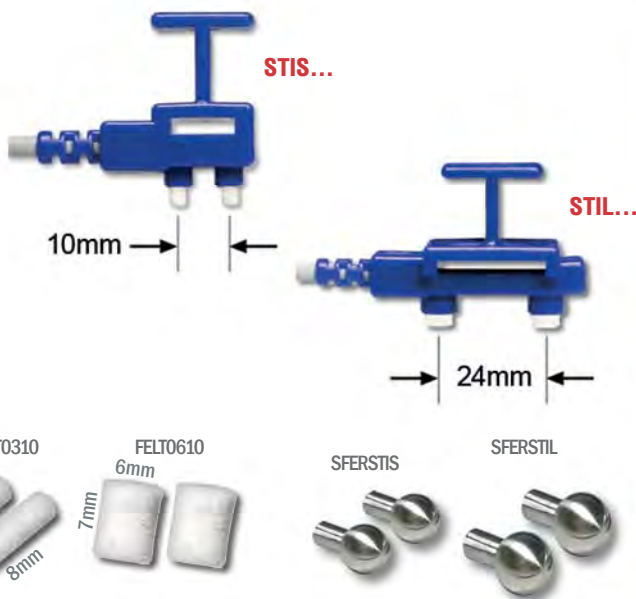
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Shielded stimulation electrodes

New stimulation electrode with flexible, lightweight cables for comfortable application.
Also available are diverse, easy to replace stimulation insets at its choice.
Content: 1 electrode - 2 stimulation balls, 10 felts - 1 velcro strap

Item details	Comment	Item number	PU
Stimulation electrode	5-channel DIN plug 270°	STIL1571W	1 pc.
Stimulation electrode	1,5mm DIN plug	STIL1526W	1 pc.
Stimulation ball	Steel	SFERSTILS	1 pair
Stimulations waffle	Steel	SFERSTILZ	1 pair
Stimulations hollow	Steel	SFERSTILB	1 pair
Connector	1,5mm DIN plug 5-pol. 270° DIN plug		



These shielded bar stimulation / conductance electrodes with two 20mm x 7mm felt inserts can be used for conductance as well as stimulation. There is a choice of distance between stimulation points of 20mm or 40mm. The connecting cable is 150cm long and can be equipped with various different plugs. The basic set includes 2 Velcro strips of length 40cm and 100cm and 10 spare felts, as well as the electrode.
Content: 1 electrode - 2 stimulation balls, 10 felts - 1 velcro strap

Item details	Comment	Item number	PU
Small electrode	5-channel DIN plug 270°	STIS1571-S	1 pc.
Small electrode	1.5 mm DIN plug	STIS1526-S	1 pc.
Stimulation felts	round, 3mm diameter	SP27-000	10 pcs.
Stimulation balls	round, 3mm diameter	SFERSTIS	1 pair
Large electrode	5-channel DIN plug 270°	STIL1571-S	1 pc.
Large electrode	1.5 mm DIN plug	STIL1526-S	1 pc.
Stimulation felts	round, 6mm diameter	FELT0610	10 pcs.
Stimulation balls	round, 6mm diameter	SFERSTIL	1 pair
Connector:	1,5mm DIN plug 5-pol. 270° DIN plug		

Content: 1 electrode - 1 velcro strap - 10 felts - 2 stimulation balls

Item details	Comments	Item number	PU
Electrode	5-channel DIN plug 270°	STIM1071S	1 pc.
Electrode	1.5mm DIN plug	STIM1526	1 pc.
Stimulation felts	round, 7mm diameter	FELT0710	10 pcs.
Stimulation balls	round, 7mm diameter	SFERSTIM	1 pair
Connector	1,5mm DIN plug 5-pol. 270° DIN plug		

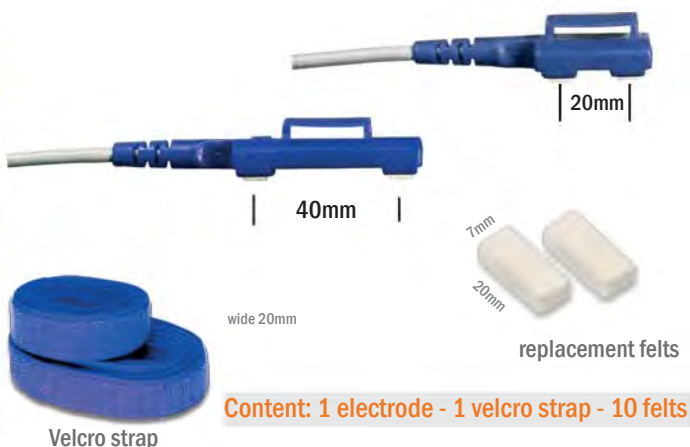


Other plug options, cable lengths and colours available on request.

Shielded bar stimulation / recording electrode

These shielded bar stimulation / recording electrodes with two 20mm x 7mm felt inserts can be used for recording as well as stimulation. There is a choice of distance between stimulation points of 20mm or 40mm. The connecting cable is 150cm long and can be equipped with various different plugs. The basic set includes 2 Velcro strips of length 40cm and 100cm and 10 spare felts, as well as the electrode.

Item Details	Comments	Item number	PU
Small electrode	5pol. DIN plug 270°	STRCP01571	1 pc.
Small electrode	5pol. DIN plug 180°	STRCP01572	1 pc.
Small electrode	3pol. DIN plug 180°	STRCP01562	1 pc.
Small electrode	1,5mm DIN plug	STRCP01526	1 pc.
Large electrode	5pol. DIN plug 270°	STRCG01571	1 pc.
Large electrode	5pol. DIN plug 180°	STRCG01572	1 pc.
Large electrode	3pol. DIN plug 180°	STRCG01562	1 pc.
Large electrode	1,5mm DIN plug	STRCG01526	1 pc.
Felts	for both types of electrodes	FELT2010	50 pcs.
Velcro strap	30cm length, 20mm wide	VELCROBLU30	1 pc.
Velcro strap	55cm length, 20mm wide	VELCROBLU55	1 pc.
Velcro strap	100cm length, 20mm wide	VELCROBLU100	1 pc.



Other plug options, cable lengths and colours available on request.



Modifiable stimulation electrode

Stimulation electrode with modifiable 5mm steel stimulation interval points. With this electrode you can adjust the distance between stimulation points to 25mm, 20mm, 15mm or 10mm. The connecting cable is 150cm long.

Item details	Comments	Item number	SU
Electrode	with 5-channel DIN plug 270°	STIM01571	1 pc.
Electrode	with 1.5mm DIN plug	STIM01526	1 pc.
Spare electrodes	Black / red	BALLSTIMR	1 pair
Connector	1,5mm DIN plug		
	5-pol. 270° DIN plug		

Gold-coated electrode plates

These plate electrodes are produced in gold-coated material. The 120cm long recording cable is shielded and fitted with a 5-pole DIN connector. For devices with a connection for 3 pole connector, 1.5mm DIN connector or 2mm connector, an adapter is required (see "Cable and Adapter").

Item details	Comments	Item number	PU
Plate electrodes	with 5pole DIN plug	SRFLATG1271	1 pc.
Plate electrodes	with 1,5mm DIN plug	SRFLATG1226	1 pc.
Tec-i: recording area 13mm x 5mm			
Connector	1,5mm DIN plug		
	5-pole DIN plug 270°		



Finger toe stimulation- / recording electrode

These ring electrodes are used for sensoric nerve transmission speed examinations, both for stimulation and for recording. A conducting gel must be applied to each ring. The version with Velcro straps (fig. 4) can be used dry, without gel. All electrodes illustrated are shielded and available with various types of connecting plug, as well as in different cable lengths. See table for details.



not shielded

SRRINGB: with standard stainless steel loops.

SRRINGF: with extra-fine stainless steel loops.

shielded

SRRING: with thick stainless steel loops.

SRRINGS: with fine stainless steel loops.

SRCOL: with Velcro loops (can be used without gel).

		Model				
	Cable	SRRINGB	SRRING	SRRINGS	SRCOL	SRRINGF
with 5-pole DIN plug 270°	100cm shielded	-	SRRING1071SHF	SRRINGS1071SHF	SRCOL1071F	SRRINGF1071T
	120cm not shielded	SRRINGB1271T	-	-	-	-
	150cm shielded	-	SRRING1571SHF	SRRINGS1571SHF	SRCOL1571F	SRRINGF1571T
with 1,5mm DIN plug	100cm shielded	-	SRRING1026SHF	SRRINGS1026SHF	SRCOL1026F	SRRINGF1026T
	120cm not shielded	SRRINGB1226T	-	-	-	-
	150cm shielded	-	SRRING1526SHF	SRRINGS1526SHF	SRCOL1526F	SRRINGF1526T

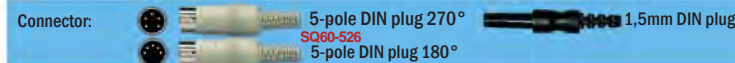


Finger toe stimulation electrodes

This finger/toe stimulation electrode consists of a Velcro strip used to attach the electrode to the finger or toe. It is connected to the EMG apparatus via a shielded adapter cable provided with a 0.7mm socket. To achieve good transfer resistance, the Velcro strips can be placed in common salt solution or used with electrode gel.

After the examination, the Velcro strips should be washed in clean water so that any salt or gel residues are removed.

Item number:	Model				
	without cable	with 5 pole DIN plug 270°	with 5 pole DIN plug 180°	1,5mm DIN plug	Connector
Electrodes without cable	SRCOLV0000 PU: 1 pair			SQ55-471 - SQ55-671	
Electrodes with 100cm cable		SRCOLV1071 PU: 1 pair	SRCOLV1072 PU: 1 pair	SRCOLV1026 PU: 1 pair	
2 x 0,7mm socket to 5pole DIN plug 270°					1002MED71F PU: 1 pair



Other plug options, cable lengths and colours available on request.

1

Bar electrodes

Bar electrode with two round 10mm stainless steel surfaces at a distance of 30mm. The unshielded connecting cable is 100cm long. In standard application, the electrode is used as a recording electrode. However, it can also be used for stimulation.

Item details	Comments	Item number	PU
Bar electrode	with 5 pole DIN plug	BAIM0071SHF	1 pc.
Bar electrode	with 1.5mm DIN plug	BAIM0026	1 pc.
Bar electrode	with 5 pole DIN plug	BARR0071SHF	1 pc.
Bar electrode	with 1.5mm DIN plug	BARR0026	1 pc.

Connector  1,5mm DIN plug
 5-pole DIN plug 270°



Bar electrode

Bar electrode with 2 steel stimulation points with a distance of 30mm. The twisted connecting cable has a length of 100cm.

Item Details	Comments	Item number	PU
with 1,5mm DIN plug	black	BAIS0026	1 pc.
with 5pol. DIN plug	white	BAIS0071SHF	1 pc.



Surface disc electrodes

1 pair 10mm disc electrodes in stainless steel with 100cm cable and a selection of connection plugs.

Item details	Comments	Item number	PU
5-pole DIN plug 270°	shielded cable	SRFLATP1071	1 pc.
1.5mm DIN plug	twisted cable (R/S)	SRFLATP1026	1 pc.

Tec-i: diameter 10mm

Connector  1,5mm DIN plug
 5-pole DIN plug 270°



Surface waffle electrodes

One pair of waffle recording electrodes for motor and sensitive response potential at extremities. Also suitable for recording on the face.

Two 8mm V2A fluted steel plates with fixed cast connection to a 120cm long, highly flexible unshielded cable. The active electrode is white, the reference electrode is brown.

Item details	Comments	Item number	PU
Waffle electrodes	with 5pole DIN plug	SRFLATW1271	1 pc.
Waffle electrodes	with 1,5mm DIN plug	SRFLATW1271	1 pc.

Tec-i: diameter 10mm, recording area 7mm

Connector  1,5mm DIN plug
 5-pole DIN plug 270°



Other plug options and cable lengths available on request.

EMG multi-function system

The multi-function connecting cable is compatible with all EMG apparatus. All 8 different electrodes can also be ordered separately. The multi-cable is available in lengths of 100cm or 200cm and has a 5-channel DIN plug. The plugs are enclosed in plastic at both ends.

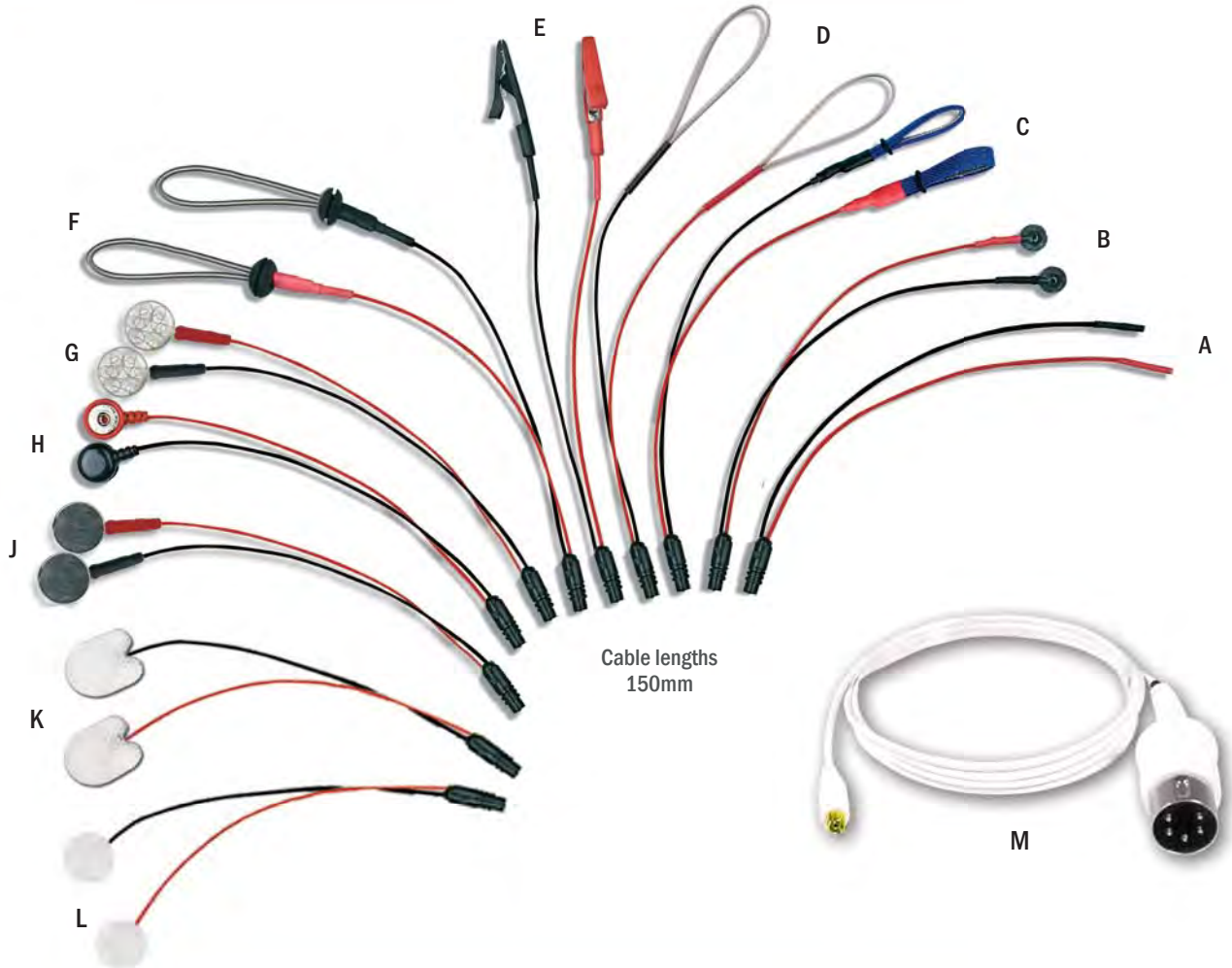



Illustration	Item details	Item number	Item No. Jäger Tönnies	PU
A	1mm socket	SRSOC0000	---	1 pc.
B	1 pair 10mm Ag/AgCl cup electrodes, enclosed in plastic	SRDISC000A	---	1 pc.
B	1 pair 10mm gold cup electrodes, enclosed in plastic	SRDISC0032	---	1 pc.
C	1 pair flexible finger-toe stimulation/conductance electrodes	SRCOL0000	---	1 pc.
D	1 pair conductance electrodes with fine stainless steel loops	SRRINGS000	---	1 pc.
E	1 pair alligator clips with plastic covering	SRCLIP0000	---	1 pc.
F	1 pair conductance electrodes with thick stainless steel loops	SRRING0000	---	1 pc.
G	1 pair spider electrodes AgCl - diameter 10mm	SRSPIDER22	---	1 pc.
G	1 pair spider electrodes gold - diameter 10mm	SRSPIDER32	---	1 pc.
H	1 pair insulated press-button electrodes	SRSTUD0000	---	1 pc.
J	1 pair insulated plate electrodes - diameter 8mm	SRFLAT0000	---	1 pc.
K	1 pair adhesive electrodes 15x20mm	DENIS01500	---	1 pc.
K	1 pair adhesive electrodes 25x20mm	DENIL01500	---	1 pc.
L	1 pair adhesive electrodes 20mm diameter	CDE02001500	---	1 pc.
L	1 pair adhesive electrodes 24mm diameter	CDE02401500	---	1 pc.
M	Multi function cable 100cm with 5-pole plug	10000NNHF	1000JTNNHF	1 pc.
M	Multi function cable 200cm with 5-pole plug	100200NNHF	100200JTNNHF	1 pc.
M	Multi function cable 100cm with 1,5mm DIN plug	1000SCNHFN	---	1 pc.
M	Multi function cable 100cm with 1,5mm DIN plug	100200SCNHFN	---	1 pc.

Tec-i: A-J cable length 150mm each

Adhesive surface electrode

This adhesive electrode is to be used with a small quantity (drop) Gel. Through its optimized size provides the electrode with its Ag/AgCl sensor a extremely precise recording.

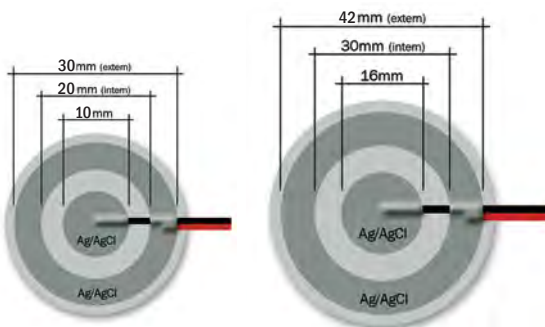
Item details	Comments	Item number	PU
Adhesive electrode	with 8cm cable	SDENID00807	50 pcs.
Connector		0,7mm PIN plug	



Bipolar adhesive surface electrode

Description: The CoDe (concentric recognition) electrode makes it possible to recognise myoelectric surface signals. The structure of the system - a point electrode and a ring electrode - circumvent the problem of orientation in classic bipolar recordings. The transfer function of the system also achieves roughly the performance of a double differential filter, although the signal is recorded with standard dual polarity amplifiers. This therefore makes better spatial selectivity possible, and a better reduction of interference in the spirit of a dual polarity system.

The system is disposable and available in various sizes, depending on the specific application. The recording surface is made of AgCl and the system is supplied with a standard connection which also makes it possible for various types of plug to be connected, depending on requirements.



This bipolar adhesive surface electrode is suitable for the recording of myoelectric muscle fibre signals. The electrode consists of one point and one ring electrode which are included in a self-adhesive pad.


Item details	Item number	PU
Bipolar adhesive electrode large	CODE501526	1 pc.
Bipolar adhesive electrode small	CODE401526	1 pc.
Connector		1,5mm DIN plug

Vaginal probe "PERIFORM"

The vaginal probe "Periform" has been developed for comfortable and effective application of muscle stimulation apparatus. It can be used with or without pelvic floor contraction indicator.

Together with the pelvic floor contraction indicator, the probe can also be used with EMG biofeedback or electro-stimulation apparatus. It makes it possible to check that pelvic floor contraction has been correctly carried out.



Item details	Comments	Item number	PU
Vaginal probe		PERIFORM	1 pc.
Connector:	 1,5mm DIN plug		



Anal probe "ANUFORM"

"ANUFORM" electrode for use as intra-anal probe and can also be used for women as a small vaginal probe. Only to be used in conjunction with muscle stimulation and EMG biofeedback apparatus.

Item details	Comments	Item number	PU
Anal probe		ANUFORM	1 pc.
Connector:	 1,5mm DIN plug		

Disposable gold leaf electrode

Flexible Mylar gold electrode. The gold leaf neutralises the electrolyte exchange between the metal and mylar layer. This electrode can be easily positioned and is designed to cause only minor friction on the cornea. The electrode has a 100cm cable with 1.5mm DIN plug.



Item details	Comments	Item number	PU
Gold leaf electrode	Disposable	53043T	10 pcs.
Connector:	 1,5mm DIN plug		

Disposable ERG Jet electrode



Disposable corneal lens electrode for ERG measurement. Contact with the cornea is made through the integral gold ring in the lens. The electrode is equipped with a 70cm cable and a 1.5mm DIN plug. The electrodes are supplied sterile and are intended only disposable.



Item details	Comments	Item number	PU
ERG Jet-electrode	disposable	842-216700	12 pcs.
Connector:	 1,5mm DIN plug		

Disposable pudendal electrode / cable

200cm connecting cable for pudendal electrode with 2 x 5-channel 270° plugs.

Item details	Comment	Item number	PU
pudendal electrode	Disposable	PUD0001	10 pcs.
Cable for electrode	2 x 5pol. DIN plug	2001PUD7171SHF	1 pc.
Cable for electrode	2 x 1,5mm DIN plug	2001PUD7126SHF	1 pc.
Connector	 1,5mm DIN plug		
	 5-pol. DIN plug 270°		



Ground electrode with press-stud button connection

Specially developed earthing electrodes which can also be used dry. Elastic bands which are pulled through with the finest stainless steel threads. This guarantees perfect earthing of the test subject even without the use of gel and salt solution. Three different lengths of 25 cm, 40 cm and 70 cm make earthing possible for children and adults. The earthing bands are connected to the preliminary amplifier via a head or clip cable. Customers working with original Jaeger Toennies press-button cables must use earthing electrodes with a suitable head cable. When ordering, remember to specify "JT".

flexible, extensible



GDRG...

not extensible



GDRGP...

Connectivity




Press button

Clip

Loop

Corresponding connectors can be found in Chapter 5

Item details:	Model			
	0 Ohm inherent resistance	0 Ohm inherent resistance Jäger Tönnies	elastic	elastic Jäger Tönnies
Ground electrode 25cm length	GDRGP02500 Recording area 20cm	GDRGP025L0 Recording area 20cm	GDRG002500 Recording area 20,5cm	GDRG0025L50 Recording area 20,5cm
Ground electrode 40cm length	GDRGP04000 Recording area 37cm	GDRGP040L0 Recording area 37cm	GDRG004000 Recording area 35cm	GDRG0040L50 Recording area 37cm
Ground electrode 70cm length	GDRGP07000 Recording area 66cm	GDRGP070L0 Recording area 66cm	GDRG007000 Recording area 66cm	GDRG0070L50 Recording area 37cm

Item details	Comments	Item number	PU
Press-stud cable 100cm	with 1,5mm DIN plug	SGKR-426	1 pc.
Press-stud cable 150cm	with 1,5mm DIN plug	SGKR-626	1 pc.
Press-stud cable 150cm	with 1,5mm DIN plug- Jäger Tönnies	SG145115	1 pc.
Tec-i: Ground electrodes has a width of 20 mm			
Connector	 1,5mm DIN plug		

Ground electrode with with press stud

150cm clip cable with 1,5mm DIN plug

Item details	Comments	Item number	PU
Ground electrode 10cm length	Recording area 9 cm	GDRGP01003	1 pc.
Ground electrode 18,5cm length	Recording area 17,5cm	GDRGP01903	1 pc.
Ground electrode 45cm length	Recording area 44cm	GDRGP04503	1 pc.
Ground electrode 75cm length	Recording area 74cm	GDRGP07503	1 pc.
Tec-i: Ground electrodes has a width of 20 mm			
Connector	 1,5mm DIN plug		





Ground electrode with fixed connecting cable

These ground electrodes are made of a copper strip covered in an absorbent felt. The electrodes must be placed in saline solution before use. It is also possible to use them with a contact gel.

After use, these electrodes should be carefully rinsed with clear water to wash the substances containing salt out of the felt. This will increase the serviceable life of the electrodes.

The connecting cable to the preliminary amplifier has a fixed connection with the copper strip and cannot be varied in length.



Item details	Comments	Item number	PU
Ground electrode 25cm length	150cm cable with 1.5mm DIN plug	GDRGF02526	1 pc.
Ground electrode 55cm length	150cm cable with 1.5mm DIN plug	GDRGF05526	1 pc.
Tec-i: Ground electrodes has a width of 20 mm			
Connector	 1,5mm DIN plug		

Plate ground electrodes

These electrodes made of stainless steel offer an alternative to the ground strips. The shape of the earthing electrodes does not essentially make a big difference. What is more important is the positioning, correct seating and a good transfer resistance. A Velcro strip or rubber band is used for fixing.

To achieve the necessary transfer resistance if there are any contact problems, the electrode can be fitted using contact gel, as for traditional earthing electrodes.


The connecting cable has a fixed connection with the plates and its length cannot be varied.

Item details	Comments	Item number	PU
Electrode with 150cm cable	with 1,5mm DIN Stecker	PLGD150263	1 pc.
Tec-i: Diameter of electrodes is 30mm			
Connector	 1,5mm DIN plug		



Disposable adhesive surface ground electrode


Self-adhesive electrode with solid gel coating and 1.5mm DIN plug.

Item details	Comments	Item number	PU
Ground electrode	with 100cm cable	DENIG10026-H	10 x 4 pcs.
Ground electrode	with 150cm cable	DENIG15026-H	10 x 4 pcs.
Ground electrode	with 100cm cable	DENIG10026	20 x 4 pcs.
Ground electrode	with 150cm cable	DENIG15026	20 x 4 pcs.
Connector	 1,5mm DIN plug		

FOR DIFFERENT APPLICATIONS

TAB adhesive electrodes

Pre-pasted disposable adhesive surface TAB electrodes for EKG. Need to be used with alligator clip cables.

Item Details	Comments	Item Number	PU
TAB-electrode	20 x 20mm Ag/AgCl	E-27	100 pcs.
TAB-electrode	20 x 20mm Tin	E-27-Z	100 pcs.
TAB-electrode	22 x 24mm Ag/AgCl	TABSM0000025	25 x 100 pcs.
TAB-electrode	14 x 22mm Ag/AgCl	TABSMP000014	100 pcs.
SET: 3 cable of 20cm* Red, Green, Black		BEC02026C1GM	1 Set
Connector	 1,5mm DIN plug		

* in connection with PKG3..... (Adapter cable)



Stimulation felts, Felts

Item details	Comments	Item Number	PU
Stimulation felts	round, 3mm diameter	FELT0310	10 pcs.
Stimulation felts	round, 6mm diameter	FELT0610	10 pcs.
Felts	for STRCP	FELT2010	10 pcs.
Stimulation felts	round, 7mm diameter	FELT0710	10 pcs.

Stimulation insets

Item details	Comment	Item number	PU
Stimulation balls	round, 3mm diameter	SFERSTIS	1 pair
Stimulation balls	round, 6mm diameter	SFERSTIL	1 pair
Stimulation balls	round, screwable, 7mm diameter	SFERSTIM	1 pair
Stimulation balls	Electrode pins with 5mm ball	BALLSTIMR	1 pair
Stimulation waffle	for electrode SP29... (page 1-7)	SFERSTILZ	1 pair
Stimulations ball	for electrode SP29... (page 1-7)	SFERSTILS	1 pair
Stimulation hollow	for electrode SP29... (page 1-7)	SFERSTILB	1 pair



Velcro strap

Item details	Comments	Item number	PU
Velcro strap	30cm length	VELCROBLU30	1 pc.
Velcro strap	55cm length	VELCROBLU55	1 pc.
Velcro strap	100cm length	VELCROBLU100	1 pc.

Tec-i: The Velcro straps have a width of 20mm

Jumper Lead adapter cable

Electrode side: 1,5mm DIN socket
Device side: 1,5mm DIN connector

Item details	Comments	Item number	PU
Cable length 15cm	black	Jump26261	5 pc.
Cable length 25cm	black	Jump26261-025	5 pc.
Cable length 15cm	red	Jump26262	5 pc.
Cable length 25cm	red	Jump26262-025	5 pc.
Cable length 15cm	green	Jump26263	5 pc.
Cable length 25cm	green	Jump26263-025	5 pc.



Data sheet product information

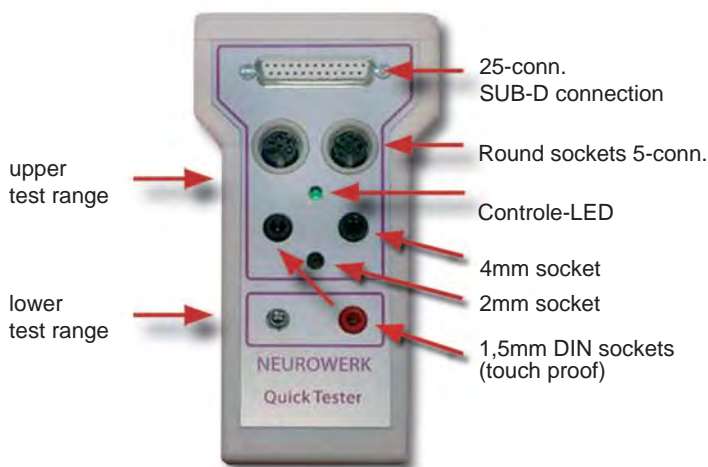
With the NEUROWERK QuickTester you are able to verify the functionality of medical supplies quickly and reliably.

The QuickTester is designed to monitor accessories of all current EEG and EMG equipment. All cables, electrodes and EEG-caps which have one of the following connectors can be checked:

- Round socket 180°
- Round socket 270°
- 1,5mm DIN plug (touch proof)
- 2mm plug (pin)
- 4mm plug (pin)
- D-SUB plug (25 conn.)

The handling of the NEUROWERK QuickTester is extremely simple:
If the specimen is intact, the green lamp will light up - supported by a sustained sound.

For the verification of EEG-caps (e.g. Head Caps) the QuickTester has a 25-conn. plug. Each electrode can be connected to a universal designed contact for the verification.



Item number: IMPEDANZ-SG

Advantages:

- Avoiding artefacts due to cable faults
- saving of time during the review of accessories
- easy handling due to optical and acoustic control
- Reduce operating costs of the equipment by an independent testing without service technician





Neuro Signal Generator NSG1 simulates typical, measured in the neurological diagnostic Evoked Potentials.

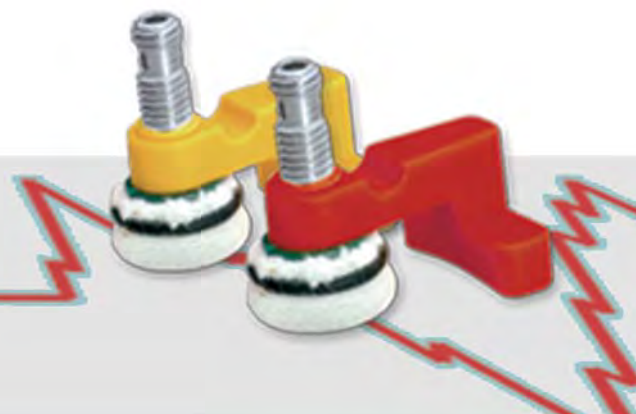
Your benefits with the NSG1

- simulation of typical evoked potentials
- Training and demonstration of equipment of neurological diagnostics
- Error detection in device service



EEG-Accessories

**professional
accessories
for professional
users**



EEG-cap type "GVB"

This EEG-cap consists of two longitudinal braces which are connected to the cross bracing at the crossover points by rubber rings (see detailed graphic). All parts can be supplied as individual parts.



EEG-cap type "GVB"

Item details	Comments	Item number	PU
EEG-Cap	Large	S-HAUBE-G	1 pc.
EEG-Cap	Large (coloured)	S-HAUBE-G-F	1 pc.
EEG-Cap	Medium	S-HAUBE-M	1 pc.
EEG-Cap	Medium (coloured)	S-HAUBE-M-F	1 pc.
EEG-Cap	Small	S-HAUBE-K	1 pc.
EEG-Cap	Small (coloured)	S-HAUBE-K-F	1 pc.
Cross bracing		2345	12 pc.
Longitudinal bracing	Large	2534-2-LR	1 pair
Longitudinal bracing	Medium	2530-2-LR	1 pair
Longitudinal bracing	Small	2526-2-LR	1 pair
Ear tab	Adults	2102	1 pair
Ear tab	Child	2101	1 pair
Attachment button	long thorn	2402	1 pair
Attachment button	small thorn	2401	1 pair
Rubber rings		O-RINGE-78-4	25 pc.

i all materials are latex free

SCHRÖTER EEG-cap

in transparent, single-colour or multi-coloured (F) design

Item details	Item number transparent	Item number colored	PU
Cap (16cm)	S-Haube-16	S-Haube-16F	1 pc.
Cap (18cm)	S-Haube-18	S-Haube-18F	1 pc.
Cap (20cm)	S-Haube-20	S-Haube-20F	1 pc.
Cap (22cm)	S-Haube-22	S-Haube-22F	1 pc.
Cap (24cm)	S-Haube-24	S-Haube-24F	1 pc.
Cap (26cm)	S-Haube-26	S-Haube-26F	1 pc.
Cap (27cm)	S-Haube-27	S-Haube-27F	1 pc.
Cap (28cm)	S-Haube-28	S-Haube-28F	1 pc.
Cap (29cm)	S-Haube-29	S-Haube-29F	1 pc.
Cap (30cm)	S-Haube-30	S-Haube-30F	1 pc.
Cap (31cm)	S-Haube-31	S-Haube-31F	1 pc.
Cap (32cm)	S-Haube-32	S-Haube-32F	1 pc.
Cap (33cm)	S-Haube-33	S-Haube-33F	1 pc.
Cap (34cm)	S-Haube-34	S-Haube-34F	1 pc.
Cap (36cm)	S-Haube-36	S-Haube-36F	1 pc.
Cap (37cm)	S-Haube-37	S-Haube-37F	1 pc.
Cap (40cm)	S-Haube-40	S-Haube-40F	1 pc.

i Schröter Caps are latex free

Single colour

To order the cap you require as a single-colour cap (e.g. completely blue or green), add the corresponding colour to the order number.

Example:
S-Haube-30**G** (for green)

Colours:
red (**R**), blue (**B**), yellow (**Y**), green (**G**)



Unlike traditional silicon EEG caps, the 10/20 conductance system is already pre-set for the Schröter caps. This means no modifications and therefore a longer life for the Schröter caps.

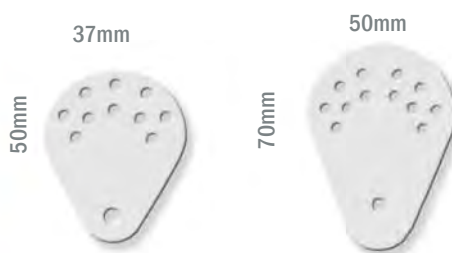
INFO BOX *i*



Replacement ear fixing for Schröter and Hygiene caps

Ear fixing / side pieces through which the silicon tubes on the cap can be pulled to secure it.

Item details	Comments	Item number	PU
Ear fixing	Small	2101	1 pair
Ear fixing	Large	2102	1 pair



Replacement attachment buttons for Schröter and Hygiene caps

Attachment buttons for the chin strap for the Schröter- cap. Can be ordered in 2 sizes.



Diameter 25mm

Item details	Comments	Item number	PU
Attachment buttons	Short thorn	2401	1 pair
Attachment buttons	Short thorn(10 pc.)	2401-SET	10 pcs.
Attachment buttons	Long thorn	2402	1 pair
Attachment buttons	Long thorn (10 pc.)	2402-SET	10 pcs.

Replacement chin straps for Schröter and Hygiene caps

Chin straps for Schröter caps are made of soft, flexible rubber material which is latex-free (2 cm wide) and can be adjusted individually.

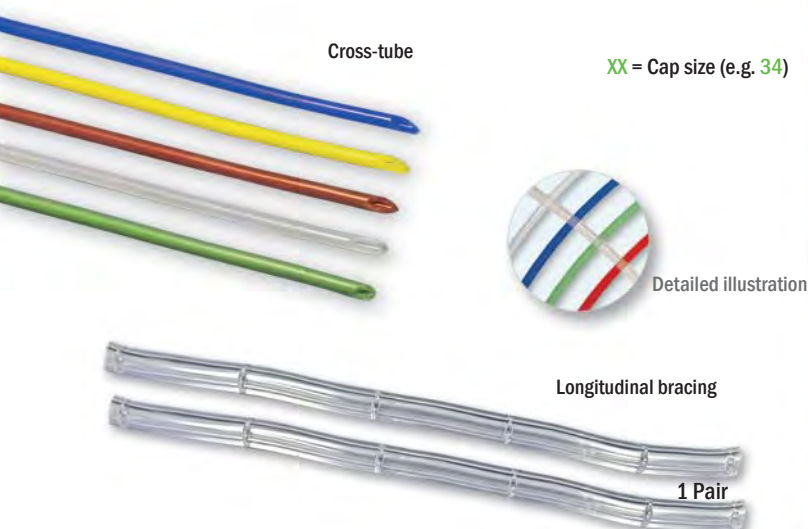


Chin strap, 2 cm wide	Length 20 cm	2220	1 pc.
Chin strap, 2 cm wide	Length 40 cm	2240	1 pc.
Chin strap, 2 cm wide	running metre	2260	1 m

Spare bracing tubes

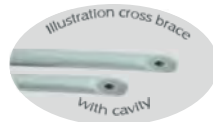
Spare bracing tubes are available in various different colours and lengths. Sold by the metre for you to cut to the required length.

Item details	Comments	Item number	PU
Hygiene EEG cap			
Cross-tubes 45 cm	Transparent	2345-H	12 pcs.
Cross-tubes by the metre	Transparent	2366-H	by the metre
Longitudinal bracing	Transparent	25XX-6-LR-H	1 pair
XX = Cap size (e.g. 34)			
Schröter EEG cap			
Cross-tubes 45 cm	Transparent	2345	12 pcs.
Cross-tubes 45 cm	4-colours	2345-F	4 pc. each color
Cross-tubes 45 cm	Red	2345-R	12 pcs.
Cross-tubes 45 cm	Blue	2345-B	12 pcs.
Cross-tubes 45 cm	Green	2345-G	12 pcs.
Cross-tubes 45 cm	Yellow	2345-Y	12 pcs.
Cross-tubes by the metre	Transparent	2366	by the metre
Cross-tubes by the metre	Red	2366-R	by the metre
Cross-tubes by the metre	Blue	2366-B	by the metre
Cross-tubes by the metre	Green	2366-G	by the metre
Cross-tubes by the metre	Yellow	2366-Y	by the metre
Longitudinal bracing	Transparent	25XX-6-LR	1 pair
XX = Cap size (e.g. 34)			



i Information: all accessories are "latex-free"

2



Hygiene EEG-Cap transparent design

Thanks to a closed system no liquid comes into the tubing

Item number	Item number transparent	PU
Cap (24cm)	H-Haube-24	1 pc.
Cap (26cm)	H-Haube-26	1 pc.
Cap (28cm)	H-Haube-28	1 pc.
Cap (30cm)	H-Haube-30	1 pc.
Cap (32cm)	H-Haube-32	1 pc.
Cap (34cm)	H-Haube-34	1 pc.
Cap (36cm)	H-Haube-36	1 pc.
Cap (37cm)	H-Haube-37	1 pc.

Hygiene EEG-Caps are latex free

Disposable NetCap with external electrodes

This net cap, available in 4 sizes, is intended for single use only and offers optimum comfort.

The net cap has latex-free silicon rubber incorporated in its edge, which ensures that the cap fits correctly and is stable even without additional accessories. The electrodes, which can be divided, can be moved at any time without difficulty.

Net cap disposable system cap in 4 sizes

L	65 - 55cm	Adults	DCAPSOLAC2126	1 pc.
M	55 - 45cm	Young adults, women	DCAPSOMAC2126	1 pc.
S	45 - 35cm	Child	DCAPSOMIC2126	1 pc.
XS	35 - 25cm	Child	DCAPSOSIC2126	1 pc.



Detailed illustration



EEG-cap type “VARIO”

Vario caps are made of latex-free PTS and can be accurately adjusted because of their dual connection points (see detailed graphic) and adjustable straps.

This means that it is possible to have electrode positions corresponding to the 10/20 conductance procedure or the “Jung” or “Grey Walter” system.

The chin strap on the Vario cap is made of flexible Velcro strip, the chin guard (formerly a hard plastic guard) has been made of soft, comfortable neoprene material and is extremely comfortable to wear. All parts of the Vario cap can be supplied as individual parts also.

EEG-cap type “Vario” with adjustable straps

Item details	Comments	Item number	PU
VARIO cap, large	with 4 longitudinal bracings	HEADOR4L	1 pc.
VARIO cap, large	with 2 longitudinal bracings	HEADOR2L	1 pc.
VARIO cap, medium	with 4 longitudinal bracings	HEADOV4M	1 pc.
VARIO cap, medium	with 2 longitudinal bracings	HEADOV2M	1 pc.
VARIO cap, small	with 4 longitudinal bracings	HEADOB4S	1 pc.
VARIO cap, small	with 2 longitudinal bracings	HEADOB2S	1 pc.
Chin protector	Adults	MENTONIERA	1 pc.
Chin protector	Child	MENTONIERA-P	1 pc.
Chin strap	adult	TIRCUFFMENTA	1 pair
Chin strap	children	TIRCUFFMENTP	1 pair
Chin strap	neonatal	TIRCUFFMENTN	1 pair

Headbands and chin straps are “latex free”



with 2 bracings



Chin protector



Chin strap

Head band cap – Neonatal cap

The head band cap makes it possible to tailor your EEG cap to individual requirements. The forehead band is 70cm long and 3cm wide, the head bands (in sets of 5) are 36cm long and 1.5cm wide. 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. See page 2-7

Head band cap – neonatal cap

Item details	Comments	Item number	PU
(1) Head bands	for extension	2285	5 pcs.
(2) forehead band	70cm	2280	1 pc.
(3) Attachment buttons	Long thorn	2402	1 pair
(3) Attachment buttons	Long thorn	2402-SET	10 pcs.
(4) Attachment buttons	Short thorn	2401	1 pair
(4) Attachment buttons	Short thorn	2401-SET	10 pcs.

Headbands and forehead bands are “latex free”



General user information

The EEG caps and head straps are especially configured to enable the attachment of bridge, mushroom and Z electrodes according to the international 10/20 system.

After measuring the electrode positions, the suitable cap size for the respective head shape is to be selected and its symmetry is to be checked prior to placing the EEG cap.

The ear-clips should be placed over the ear, but not over the earlobes so that the ear electrodes can be fitted comfortably.

When placing the cap on the patient, we recommend to stand in front of or behind the patient and to pull the cap at the ear-clips onto the head using both hands. Then close the chin strap. To do so, place the chin strap as far to the front of the chin as possible and ensure that it fits your patient comfortably.

After having closed the chinstrap, re-tighten the cross struts until all equally fit to the head. This ensures that the contact pressure of the cap is equally distributed on all electrodes and thus the electrode stability is achieved. Furthermore, this procedure significantly reduces the possibility of artefacts.

As soon as you have assured the perfect fit of the EEG cap, you can start with positioning the electrodes.



Further tips and the procedure regarding usage and maintenance can be found on our free DVD training documentation.

Maintenance of EEG caps

The cap must be cleaned after usage. To ensure the longest possible life and good flexibility of your cap, we recommend allowing the cap to dry after cleaning and powdering it afterwards.

The information regarding cleaning and disinfection is part of the information attached to the product.

Gold pin electrodes

For all bridge electrodes, there are electrodes with large bridges for adults and small bridges for children. The conducting surface is identical (10mm).

Both of the GVB-SPES bridge electrode can be used with and without coverings. If used without a covering, you require a contact gel or a contact cream to achieve better electrode potential and therefore more stable conductance conditions. We recommend our contact gel and cream products for this.

GVB-SPES has very successfully offered a version of bridge electrodes for many years, in which the original silver pin has been gold-plated. In this way the pin is protected from corrosion caused by salts and fewer contact problems occur with the connecting cable. Conductance results remain constant.

GVB-SPES electrodes have a thread to enable better adjustment of the height of the electrodes. In this way good contact of the electrode with the surface of the head is guaranteed.

Important! If you notice that some of your electrodes are defective or not fully functioning, it is advisable to change the complete set of electrodes, as varying contact or inherent resistance values in individual electrodes can make a considerable impact on the results recorded, and lead to false interpretations.

Golden pin bridge electrode with screw thread (sintered AgCl)

The golden pin bridge electrode supplied by GVB can also be used as a fungus electrode without the plastic bridge.

Item details	Comments	Item number	PU
Bridge electrode	Adults blue	BEG000A7-H	5 pcs.
Bridge electrode SET	Adults blue	BEG000A7	10 pcs.
Bridge electrode	Adults red	BEG000A2-H	5 pcs.
Bridge electrode SET	Adults red	BEG000A2	10 pcs.
Bridge electrode	Child yellow	BEG000P4-H	5 pcs.
Bridge electrode SET	Child yellow	BEG000P4	10 pcs.

Tec-i: The recording area of the electrodes is 10mm

Tec-i: The 2 mm connecting cable can be used both vertically and horizontally attached to the electrode



Silver pin electrode with screw thread (sintered AgCl)

Item details	Comments	Item number	PU
Bridge electrode SET	Adults blue	BES100A7-H	5 pcs.
Bridge electrode SET	Adults blue	BES100A7	10 pcs.
Bridge electrode SET	Adults red	BES100A2-H	5 pcs.
Bridge electrode SET	Adults red	BES100A2	10 pcs.
Bridge electrode SET	Child yellow	BES100P4-H	5 pcs.
Bridge electrode SET	Child yellow	BES100P4	10 pcs.

Tec-i: The recording area of the electrodes is 10mm

Tec-i: The 2 mm connecting cable can be used both vertically and horizontally attached to the electrode



Important when cleaning:

The electrode surface must not come into contact with other metallic substances as a chemical reaction caused by this destroys the alloy.

Do not store the electrodes in saline solution permanently as the salt has an aggressive effect on the surface and can thus destroy it.

It is particularly important to observe the overall appearance of the used electrodes and cables when replacing single components.

INFO BOX *i*

2



Silver pin electrode - sliding thread (sintered Ag/AgCl)

Item details	Comments	Item number	PU
Bridge electrode SET	Adults red	BE505209-H	5 pcs.
Bridge electrode SET	Adults red	BE505209	10 pcs.
Bridge electrode SET	Children red	BE505210-H	5 pcs.
Bridge electrode SET	Children red	BE505210	10 pcs.
Z-electrode	Red	BE505201-H	5 pcs.
Z-electrode	Red	BE505201	10 pcs.
Fungus electrode	Red	SIL505207-H	5 pcs.
Fungus electrode	Red	SIL505207	10 pcs.
Ear electrode	Red	SIL505220	5 pcs.

Tec-i: The recording area of the electrodes is 10mm
 Tec-i: The 2 mm connecting cable can be used both vertically and horizontally attached to the electrode

Fungus electrode (sintered AgCl)

Sintered fungus electrode with silver peg, for head band caps.

Item details	Comments	Item number	PU
Fungus electrodes	sintered	BES00000-H	5 pcs.
Fungus electrodes	sintered	BES00000	10 pcs.

Tec-i: The recording area of the electrodes is 10mm
 Tec-i: The 2 mm connecting cable can be used both vertically and horizontally attached to the electrode



Z-electrodes (sintered AgCl)

Z-electrodes are used exclusively in conjunction with head band caps.

Item Details	Comments	Item number	PU
Z-electrodes - blue	sintered	ZELEK-H	5 pcs.
Z-electrodes - blue	sintered	ZELEK	10 pcs.

Tec-i: The recording area of the electrodes is 10mm
 Tec-i: The 2 mm connecting cable can be used both vertically and horizontally attached to the electrode



During an examination, avoid using different materials together, as this can lead to problems in conductance. Ensure that the used ear and ECG electrodes are also made of the same material.

INFO BOX *i*

CARE INSTRUCTIONS

User information regarding bridge, mushroom and Z electrodes

If you notice that some of your electrodes are defective or no longer fully operational, we recommend replacing the whole electrode set, as there is otherwise the danger that different electrode potentials or inherent resistances of the single electrodes affect the result and cause misinterpretations in the monitoring.

You should avoid using different electrode materials (different materials have different contact resistances) as this would lead to differences in the potential of the monitoring.

Maintenance of EEG electrodes

A largely interference-free EEG registration requires, amongst other things, a systematic electrode maintenance. Due to different electrode potentials, electrodes which are poorly cleaned, stained, irregularly chlorinated or which have a damaged surface not only lead to an increased occurrence of artefacts during the monitoring, but also to an increased level of fluctuations of the iso-electric line (drift). Therefore, electrodes have to be cleaned regularly – not only for hygienic reasons.

Please be sure to observe the handling of sintered electrodes:

Sinter electrodes must not be chlorinated, treated with metallic objects or placed or stored with their leading surface on a metallic surface.

Furthermore, they must not come into contact with acids or alkaline solutions, ether, acetone, benzene, tri- or tetrachloroethylene. Sinter electrodes must also not be exposed to intense light sources, such as direct sunlight.

When using electrodes with felt covers, the electrodes are plunged into 0.9 % saline solution for approx. 20-30 minutes so that the felt cover is impregnated with the solution which ensures a good, consistent contact resistance over the monitoring duration of approx. 20 minutes.

Do not store the electrodes in saline solution permanently as the salt has an aggressive effect on the surface and can thus destroy it.

They must not completely put into liquids to avoid that liquid penetrates into the electrode bridge.

Cotton pad set – pads (cotton) and rubber rings (O-rings)



Cotton pad sets consist of cotton pads and the fixing rings for those, the “O-rings”. To make assembly on the corresponding electrodes easier, we recommend our assembly cone.

Pads/O-Ring	Use	100 Pads / 100 O-rings	100 Pads / 50 O-rings	50 Pads / 50 O-rings
26mm / 6,8mm	for electrode NKBE-0005	BEZUG-26-0	BEZUG-26-12-0	BEZUG-26-2-0
28mm / 8,5mm	for bridge and fungus electrodes	BEZUG-28-0	BEZUG-28-12-0	BEZUG-28-2-0
30mm / 8,5mm	for bridge and fungus electrodes	BEZUG-30-0	BEZUG-30-12-0	BEZUG-30-2-0
32mm / 8,5mm	for bridge and fungus electrodes	BEZUG-32-0	BEZUG-32-12-0	BEZUG-32-2-0
32mm / 10,0mm	for Z-electrodes	BEZUG-32-0Z	BEZUG-32-12-0Z	BEZUG-32-2-0Z

Cotton pads - (excluding O-rings)

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.

Pads	USE	100 Pads	50 Pads
26mm	for electrode NKBE-0005	BEZUG-26	BEZUG-26-2
28mm	for bridge and fungus electrodes	BEZUG-28	BEZUG-28-2
30mm	for bridge, fungus and Z-electrodes	BEZUG-30	BEZUG-30-2
32mm	for bridge and fungus electrodes	BEZUG-32	BEZUG-32-2



MON-14/
(for Z-electrodes) MON-16



PVINS



Fitting cone for pads (cotton) with O-rings

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

Item details	Comments	Item number	PU
Cone black	for 14 mm electrode size	MON-14	1 pc.
Cone white	for 14 mm electrode size	PVINS	1 pc.
Cone black	for 16 mm electrode size	MON-16	1 pc.

Bridge electrode bowl

Our bridge electrode bowl is outstandingly well-suited to providing optimum protection for the plug-in contacts of the electrodes. If felts are used, we recommend this option, as it requires only a small quantity of common salt solution (approx. 1 / 2 l)

Item details	Comments	Item number	PU
Bridge electrode bowl	0,5l filling quantity	1323000101	1 pc.
Saline rinsing	Content: 1 liter	9348035	1 btl.



Ear electrodes "GVB"

There are some ear electrodes in 6mm design, but the 9-10mm option is the most popular. All the different shapes, types and materials do not differ in their features. When using ear electrodes, ensure that the same electrode material is used as in the EEG conductance.





! Now available as a gold electrode !

Ear electrodes "GVB"

Ear electrodes "GVB" are available in tin and sintered Ag/AgCl. The length of cable is 100cm.

Item Details	Comments	Item number	PU
Ear electrode, tin	with 1.5 mm DIN plug	EAR1226TO-2	1 pair
Ear electrode, tin	with 2 mm plug	EAR1221TO-2	1 pair
Ear electrode, gold	with 1.5 mm DIN plug	EAR1026GO-2	1 pair
Ear electrode, gold	with 2 mm plug	EAR1021GO-2	1 pair
Ear electrode, sintered	with 1.5 mm DIN plug	EAR1026SO-2	1 pair
Ear electrode, sintered	with 2 mm plug	EAR1021SO-2	1 pair
Ear electrode AgCl	with 1.5 mm DIN plug	EAR1026AG-2	1 pair
Ear electrode AgCl	with 2 mm plug	EAR1021AG-2	1 pair

Connector:  1,5mm DIN plug  2mm spring plug

Ear electrodes

These ear electrodes are available in 3 different materials. The length of cable for the gold ear electrodes are 120cm and the other ear electrodes have a length of 100cm.

Item Details	Comments	Item number	PU
Electrode silver	with 1.5 mm DIN plug	OHR-EC-AG-26	1 pair
Electrode gold	with 1.5 mm DIN plug	OHR-EC-G-21	1 pair
Electrode sintered	with 1.5 mm DIN plug	OHR-EC-AGCL-26	1 pair

Connector:  1,5mm DIN plug  2mm spring plug



Clamp electrodes

Clamp electrode with discharge surface made of tin or AgCl, for adults and children.

Item Details	Comments	Item number	PU
Clamp electrode tin	Adults (red and black)	CLTA000MG	1 pair
Clamp electrode tin	Child (red and black)	CLTI000MG	1 pair
Clamp electrode AgCl	1-piece, metallic adults	CLAG0000	SET of 4
Clamp electrode AgCl	3-piece, metallic adults	CLAG0000M	SET of 4
Clamp electrode AgCl	3-piece, metallic children	CLAGP000M	SET of 4

Connector:  4mm plug  2mm spring plug
 Press button  Clip

CLTI...



CLAG...

When using ear electrodes, you do not need any coverings, as for bridge electrodes. However, to achieve good transfer resistance values in this case also, we recommend using our contact gels and creams, which you can find at page 6-1

INFO BOX



2

Head measure tape

Head measure tape to determine the head circumference for the selection of the exact cap size.

Item details	Comments	Item number	SU
Measure tape	Length: 143cm	GVB-ME-12	1 pc.
Measure tape	Length: 205cm	ME-12	1 pc.



Special color coded measure tape, usable for MultiCaps



GVB-ME-12



Glass head

Glass head for storage or drying of all types of caps after cleaning it.

Item details	Comment	Item number	SU
Glass head	Perimeter 57cm	M058	1 pc.
Styrofoam head	Perimeter 54cm	30100500	1 pc.
Styrofoam head	Perimeter 58cm	3096600	1 pc.

CHINAGRAPH pencils

For marking electrode position.

Item details	Comments	Item number	SU
CHINAGRAPH pencil	Red	B0012-1	1 pc.
CHINAGRAPH pencil	Blue	B0012-2	1 pc.
CHINAGRAPH pencil	Black	B0012-3	1 pc.
CHINAGRAPH pencil	Yellow	B0012-4	1 pc.
CHINAGRAPH pencil	Red	B0012-1-S	12 pc.
CHINAGRAPH pencil	Blue	B0012-2-S	12 pc.
CHINAGRAPH pencil	Black	B0012-3-S	12 pc.
CHINAGRAPH pencil	Yellow	B0012-4-S	12 pc.



Electrode Cleaning

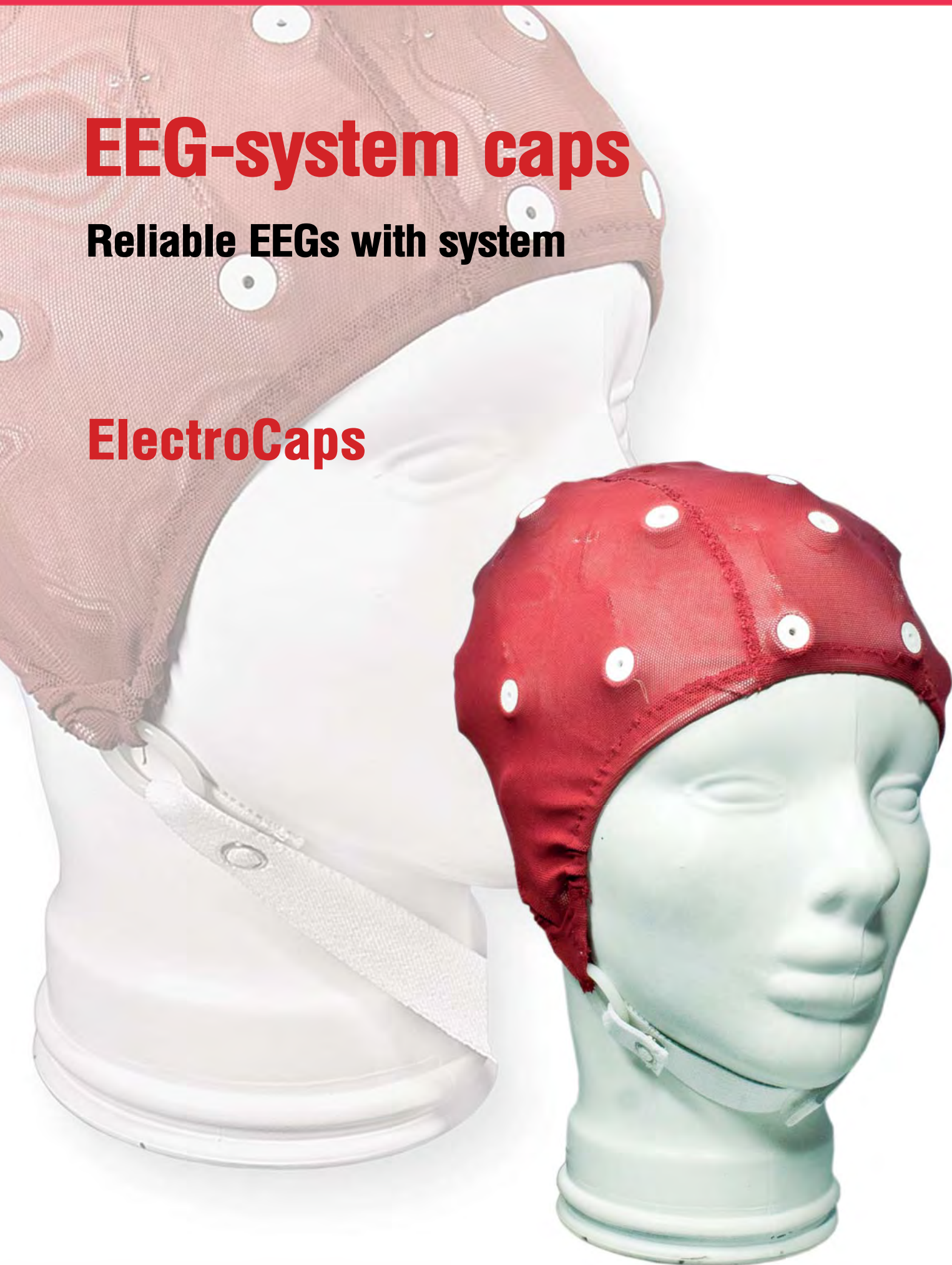
Wooden sticks with pointed and flat side, cotton buds or cleaning brushes for careful cleaning of electrodes. Thorough cleaning prevents artefacts.

Item details	Comments	Item number	SU
Wooden sticks	flat and pointed side	E-26	100 pcs.
Cleaning brushes	Synthetic fibres	PUL0000025	25 pcs.
Cotton buds	extra long handle	SWAPS	100 pcs.

EEG-system caps

Reliable EEGs with system

ElectroCaps



ElectroCaps – The range

ElectroCaps are made of elastane and fit perfectly in all sizes. Available from very large adult (62 cm) to premature baby size (20 cm). The standard caps include the international 10/20 positioning system. ElectroCaps are available in a wide range of designs.

The SURGICAL CAP (CS2000) was developed specially for intraoperative or intensive care monitoring. Every ElectroCap is also available as a Surgical Cap.

Customer-specific ElectroCaps (Customer Caps) can be manufactured with up to 256 electrode positions for research purposes or similar. Customer Caps are made to the customers specific requirements and fitted with electrodes made of tin, gold or sintered Ag/AgCl. ElectroCaps are also available with flat electrodes, external cabling and external electrodes.

ElectroCaps can also be manufactured specially for applications with evoked potential. For this purpose the electrodes are specially worked into the positions which they require to evoke response. ElectroCaps for evoked potential are equipped as standard with 7 electrodes in positions C3, C4, Cz, O1, O2, OZ and GND. (Individual plug with 1.5mm TP-connection).

The ElectroCap positioning system for electrodes has been used worldwide for over 30 years. It is currently used in around 5,000 research institutions and clinics in more than 100 countries on earth. In Germany, Austria and Switzerland, the caps are currently used by more than 1000 users.

The system

The ElectroCap electrode fitting system is a high-performance tool. Whether you are working with 2 or 256 channels, ElectroCaps employ the quickest method available on the market to ensure that the electrodes are precisely positioned.

The method

This method, which uses state-of-the-art technology, is based on a concept of sunken electrodes which ensure that every recording takes place reliably. Up to twenty cap sizes ensure that they are comfortable for every patient to wear, and at the same time ensure that the electrodes are always correctly positioned. Depending on the area of application, 2-3 cap sizes are generally required. The electrodes are securely fitted in the caps. This means that errors due to false positioning are practically excluded.

Application

It only takes about five minutes to fit the caps with the international 10/20 positioning system. This reduces time and set-up costs. Expenditure on cleaning is minimal. ElectroCaps are an invaluable help, even when treating patients who cannot co-operate.



The ElectroCap System...

preferred by users,
doctors and patients
for good reason.

Standard ElectroCaps

There is a single connection to your EEG equipment via an adapter. All electrodes are then connected at the same time using a plug connection. Various designs of adapter are available, so that the caps can be connected to any type of EEG apparatus. The design of the electrodes ensures an excellent connection via a saline bridge. This guarantees artefact-free measurement, supported by the reduction of transfer resistance and sources of interference.



ElectroCap with 20/21 electrodes

Item details	Comments	Item number	PU
ElectroCap (blue)	Size 62-58 (L)	E1-LHI-20KK25-Z	1 pc.
ElectroCap (red)	Size 58-54 (M)	E1-MHI-20KK25-Z	1 pc.
ElectroCap (yellow)	Size 54-50 (S)	E1-SHI-20KK25-Z	1 pc.
ElectroCap (green)	Size 50-46 (XS)	E1-XSHI-20KK25-Z	1 pc.
ElectroCap (blue)	Size 62-58 (L)	E1-LHI-20RK25-Z	1 pc.
ElectroCap (red)	Size 58-54 (M)	E1-MHI-20RK25-Z	1 pc.
ElectroCap (yellow)	Size 54-50 (S)	E1-SHI-20RK25-Z	1 pc.
ElectroCap (green)	Size 50-46 (XS)	E1-XSHI-20RK25-Z	1 pc.

THE LATEST MODERN TECHNOLOGY
AND HIGH-QUALITY MATERIALS

GUARANTEE RELIABLE
MEASUREMENT RESULTS

Infra ElectroCaps

The caps for small children and infants are usable for patients up to an age of 2. The InfaCaps are made to the traditional 10/20 or 10/10 method. The electrodes are placed between F1, F2, C3, C4, O1, O2, T3, T4, CZ and GND on the Infa-Caps, and F3, F4, P3 and P4 are also included. The caps may be used to good effect on premature babies in conjunction with foam rings (Item nr.: E-6). The ElectroCaps are fixed by the chest strap or chin strap which are fitted to the caps.

All caps can be supplied with the full 10/20 or 10/10 electrode programme with individual positioning of electrodes.



ElectrodeCap with 14, 20 or 21 electrodes

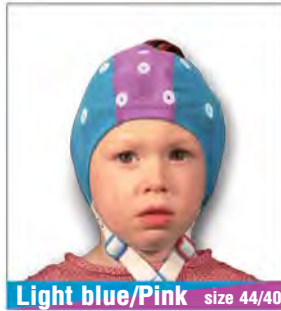
Item details	Comments	Item number	PU
Infa Cap (light blue)	Size 46-42 (1)	I1-1FI-20RK25-Z	1 pc.
Infa Cap (light blue)	Size 46-42 (1)	I1-1FI-20KK25-Z	1 pc.
Infa Cap (light blue)	Size 46-42 (1)	I1-1FI-14KK25-Z	1 pc.
Infa Cap (pink)	Size 42-38 (2)	I1-2FI-14KK25-Z	1 pc.
Infa Cap (brown)	Size 38-34 (3)	I1-3FI-14KK25-Z	1 pc.
Infa Cap (yellow)	Size 34-30 (4)	I1-4FI-14KK25-Z	1 pc.
Infa Cap (blue)	Size 30-26 (5)	I1-5FI-14KK25-Z	1 pc.
Infa Cap (red)	Size 26-22 (6)	I1-6FI-14KK25-Z	1 pc.

Infa ElectroCaps are supplied with 14 electrodes as standard in flat design.

Customer-specific adaptations are always possible.

ElectroCaps In-between sizes

In addition to the tried and trusted ElectroCap in standard sizes, in-between sizes such as 60/56 (for standard sizes) and 44/40 (for Infa Caps) are also available. These in-between sizes allow a more exact fit possible for head sizes which are at the borderline for standard caps. These sizes are also highly suitable for patients with a flat back of the head.

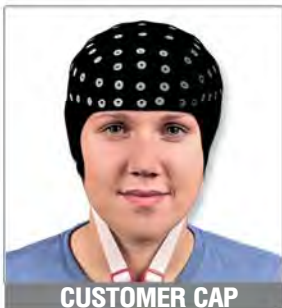


ElectroCap with 14 or 20 electrodes

Item details	Comments	Item number	PU
Blue/red	Size 56-60 (LM)	E1-LMHI-20KK25-Z	1 pc.
Red/yellow	Size 52-56 (MS)	E1-MSHI-20KK25-Z	1 pc.
Yellow/green	Size 48-52 (SXS)	E1-SXSHI-20KK25-Z	1 pc.
Light blue/pink	Size 40-44 (1/2)	I1-1/2FI-14KK25-Z	1 pc.
Pink/brown	Size 36-40 (2/3)	I1-2/3FI-14KK25-Z	1 pc.
Brown/yellow	Size 32-36 (3/4)	I1-3/4FI-14KK25-Z	1 pc.
Yellow/blue	Size 28-32 (4/5)	I1-4/5FI-14KK25-Z	1 pc.
Blue/red	Size 24-28 (5/6)	I1-5/6FI-14KK25-Z	1 pc.

Surgical cap

The CS-2000 cap was designed especially for intraoperative EEG monitoring. No chin strap or chest strap is necessary. Any electrode position can also be selected with these caps.



Customer cap

For customer-specific caps, the user chooses the number, material and positioning of the electrodes. Up to 256 electrodes can be fitted into the cap by this method.

Evoked potential (EP) cap

Caps used for conductance of evoked potential have a reduced number of electrodes. We supply the caps as standard with C3, C4, CI, O1, O2 and GND. On request we can also supply them with other electrode positions.

Prices and configurations on request.



ElectroCaps with reference electrode

Many types of new EEG apparatus use an additional reference electrode. This means that the ElectroCaps also have to be equipped with an additional electrode. For all ElectroCaps this can also be placed to customer specifications. GVB-geliMed supplies the standard reference caps with electrode position between CZ and PZ. These additional electrodes are marked CPZ.

You will find the key to item numbers for all EEG system caps on the next page!

ADDITIONAL ELECTRODES AND ACCESSORIES FOR ELECTROCAPS



Spare electrodes and fixing items

Spare electrode discs with fixing items in flat and high design. Electrode discs made of tin, gold and sintered Ag/AgCl.

Item details	Comments	Item number	PU
Electrode (disc)	Tin	E-19-Z-00	1 pc.
Electrode (disc)	Gold	E-19-G-00	1 pc.
Electrode (disc)	Sintered Ag/AgCl	E-19-AGCL-00	1 pc.
Mounting	High design	E-20	1 pc.
Mounting	Flat design	E-20-FL	1 pc.

Bio-potential electrode

Bio-potential electrode made of tin, gold and sintered Ag/AgCl, for use as additional electrode with 180cm connecting cable and 1.5mm DIN plug.

Item details	Comments	Item number	PU
Bio-potential electrode	Tin	E-17-Z-26	1 pc.
Bio-potential electrode	Gold	E-17-G-26	1 pc.
Bio-potential electrode	Sintered Ag/AgCl	E-17-AGCL-26	1 pc.



INFO BOX

The bio-potential electrode is also available with other plug variations on request.



Chest belt for attaching caps

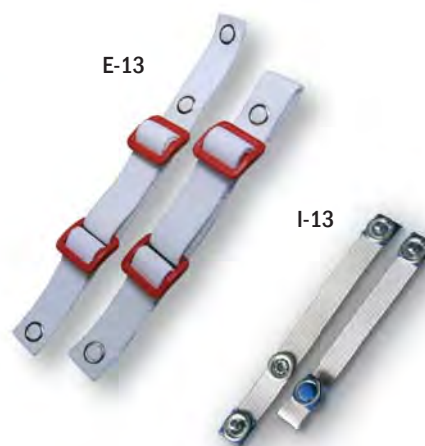
Chest belt for attaching ElectroCap using head bands fitted to the ElectroCap.

Item details	Comments	Item number	PU
Chest belt	Length 116cm	E-3-L	1 pc.
Chest belt	Length 95cm	E-3-M	1 pc.
Chest belt	Length 72cm	E-3-S	1 pc.
Chest belt (Infa)	Length 72cm (smaller studs) only for head band I-13	E-3-SI	1 pc.
Chest belt (Infa)	Length 40cm	I-2	1 pc.

Head bands (elastic)

Adjustable elastic head bands for fixing ElectroCaps to the chest strap. Provide a secure fit.

Item details	Comments	Item number	PU
Adult	Size L	E-13-L	1 pair
Adult	Size LM	E-13-LM	1 pair
Adult	Size M	E-13-M	1 pair
Adult	Size MS	E-13-MS	1 pair
Child	Size S	E-13-S	1 pair
Child	Size XS	E-13-XS	1 pair
Child	Size SXS	E-13-SXS	1 pair
Small child	Size 1	I-13-1	1 pair
Small child	Size 2	I-13-2	1 pair
Small child	Size 3	I-13-3	1 pair
Pre-born baby	Size 4	I-13-4	1 pair
Pre-born baby	Size 5	I-13-5	1 pair
Pre-born baby	Size 6	I-13-6	1 pair



ACCESSORIES FOR ELECTROCAPS

Elastic chin straps

Elastic chin straps for attaching ElectroCaps.

Item details	Comments	Item number	PU
Chin strap	Adults 17,7cm	E-23-7	1 pair
Chin strap	Small adults 12,7cm	E-23-5	1 pair
Chin strap	Child / Infa (for all Infa Caps)	I-23	1 pair



E-12



I-3

Head tape measure for ElectroCaps

Colour-coded special head tape measure for establishing the correct Head Cap size.

Item details	Comments	Item number	PU
Head tape measure	Adults	E-12	1 pc.
Head tape measure	InfaCaps	I-3	1 pc.

Chin strap padding

Padding for chin strap to ensure a comfortable fit.

Item details	Comments	Item number	PU
Chin strap padding	Soft-Pads	E-24	100 pcs.



Foam rubber rings for ElectroCaps

The foam rubber rings with adhesive back reduce gel connections between electrodes and ensure better positioning of the cap, amongst other benefits.

Item details	Comments	Item number	PU
Foam rubber rings		E-6	100 pcs.



ELECTROCAP ADDITIONAL ELECTRODES



EKG electrode



EMG electrode

Additional electrodes

The EMG and EKG electrodes are used to record the corresponding signals in parallel to the EEG.

Item details	Comments	Item number	PU
EKG electrode (tin)	with 1.5 mm DIN plug	E-14-Z-26	1 pc.
EKG electrode (tin)	with 2 mm plug	E-14-Z-21	1 pc.
EMG electrode	with 1.5 mm DIN plug	E-15-Z-26	1 pc.
EMG electrode	with 2 mm plug	E-15-Z-21	1 pc.

Additional electrodes

9mm standard electrode or 6mm child's electrode made of tin with 120cm cable.

Item details	Comments	Item number	PU
Additional electrode 6mm	with 1.5 mm DIN plug	E-21-6-Z-26	1 pc.
Additional electrode 6mm	with 2 mm plug	E-21-6-Z-21	1 pc.
Additional electrode 9mm	with 1.5 mm DIN plug	E-21-9-Z-26	1 pc.
Additional electrode 9mm	with 2 mm plug	E-21-9-Z-21	1 pc.
Electrode pads	to attach E-21	E-25	100 pcs.



Electrode pad for attaching electrode



CLTI...

CLAG...

Clamp electrodes

Clamp electrode with conducting surface in tin or AgCl for adults and children.

Item details	Comments	Item number	PU
Clamp electrode tin	Adults (red and black)	CLTA000MG	1 pair
Clamp electrode tin	Children (red and black)	CLTI000MG	1 pair
Clamp electrode AgCl	1-piece, met. Adult	CLAG0000	SET of 4
Clamp electrode AgCl	3-piece, met. Adult	CLAG0000M	SET of 4
Clamp electrode AgCl	3-piece, met. Child	CLAGP000M	SET of 4

TAB adhesive electrodes

Pre-pasted disposable surface TAB electrode for EKG. For use in conjunction with alligator clip cables.

Item details	Comments	Item number	PU
TAB electrode	20 x 20mm Ag/AgCl	E-27	100 pcs.
TAB electrode	20 x 20mm Tin	E-27-Z	100 pcs.
TAB electrode	22 x 20mm Ag/AgCl	TABSM0000025	25 x 100 pcs.
TAB electrode	14 x 22mm Ag/AgCl	TABSMPO00014	100 pcs.
SET: 3 cable 20cm	Red, Green, Black	BEC02026C1GM	1 Set



20 x 20mm

E-27
E-27-Z



22 x 20mm

TABSM0000025



14 x 22mm

TABSMPO00014



BEC02026C1GM

During an examination, avoid using different materials for additional electrodes such as EMG, EKG and ear electrodes together, as this can lead to problems in conductance due to potential shifts.

INFO BOX



Other plug variations, cable lengths and colours on request.

ADDITIONAL ELECTRODES FOR ELECTROCAPS

Ear electrode "GVB"

The new ear electrode shape is comfortable for patients because it can be adapted individually. The cable length is 100cm, the tin variant will be delivered with 120cm.

Item details	Comments	Item number	PU
Ear electrode, tin	with 1.5mm DIN plug	EAR1226TO-2	1 pair
Ear electrode, tin	with 2mm plug	EAR1221TO-2	1 pair
Ear electrode, gold	with 1.5mm DIN plug	EAR1026GO -2	1 pair
Ear electrode, gold	with 2mm plug	EAR1021GO-2	1 pair
Ear electrode, sintered	with 1.5mm DIN plug	EAR1026SO-2	1 pair
Ear electrode, sintered	with 2mm plug	EAR1021SO-2	1 pair
Ear electrode, Ag/AgCl	with 1.5mm DIN plug	EAR1026AG-2	1 pair
Ear electrode, Ag/AgCl	with 2mm plug	EAR1021AG-2	1 pair



3



Ear clip electrodes

One pair tin ear electrodes in 6mm (for children) or 9mm design (for adults). The cable length is 122cm.

Item details	Comments	Item number	PU
Ear electrode 6mm	with 1.5mm DIN plug	E-5-6-Z-26	1 pair
Ear electrode 6mm	with 2mm plug	E-5-6-Z-21	1 pair
Ear electrode 9mm	with 1.5mm DIN plug	E-5-9-Z-26	1 pair
Ear electrode 9mm	with 2mm plug	E-5-9-Z-21	1 pair

Quick Insert electrode

The Quick Insert Electrode is used for all ElectroCaps and HeadCaps as a temporary bridge to remedy a faulty system cap electrode.

Item details	Comments	Item number	PU
Tin	with 1.5mm DIN plug	E-4-Z-26	1 pc.
Tin	with 2mm plug	E-4-Z-21	1 pc.
Sintered Ag/Cl	with 1.5mm DIN plug	E-4-AGCL-26	1 pc.
Sintered Ag/Cl	with 2mm plug	E-4-AGCL-21	1 pc.



During an examination, avoid using different materials together as this can lead to problems in conductance. Ensure that the used ear and EKG electrodes are made of the same materials as the EEG electrodes.

INFO BOX *i*

ELECTRODE BOARD ADAPTER



Adapter for "Schwarzer" apparatus

Special electrode board adapter for connecting electrodes individually to Schwarzer EEG apparatus which has a 37 or 50-channel plugboard.
Other adapters for current EEG apparatus on request.

Item details	Comments	Item number	PU
Adapter (Illustration)	EPAS 24	CAPCAB2537SW	1 pc.
Adapter	EPAS 29	CAPCAB2537SWER	1 pc.
Adapter	National	CAPCABR2550SW	1 pc.
Adapter	International	CAPCABR2550SWUS	1 pc.

Adapter 1.5 mm plug

Electrode board adapter with 20, 21 or 22 connections (20+ reference) with 1.5mm DIN plugs or 2mm plugs. To connect MultiCaps to EEG apparatus.

Item details	Comments	Item number	PU
Adapter 20 conn.	1.5mm DIN plug	CAPCAB2025F26	1 pc.
Adapter 20 conn.	2mm plug	CAPCAB2025F21	1 pc.
Adapter 21 conn.	1.5mm DIN plug	CAPCAB2125F26	1 pc.
Adapter 21 conn.	2mm plug	CAPCAB2125F21	1 pc.
Adapter 22 conn.	1.5mm DIN plug	CAPCAB2225F26	1 pc.
Adapter 22 conn.	2mm plug	CAPCAB2225F21	1 pc.

Length: 20cm



Adapter for "Nihon Kohden" apparatus

Special electrode board adapter for connecting electrodes to Nihon Kohden EEG apparatus which has a multi-contact plugboard.

Item details	Comments	Item number	PU
Adapter Series 4	National	E-2-NK-2550-4G	1 pc.
Adapter Series 9	National	E-2-NK-2550-9G	1 pc.
Adapter Series 4	International	E-2-NK-2550-4K	1 pc.
Adapter Series 9	International	E-2-NK-2550-9K	1 pc.

GENERAL ACCESSORIES AND GELS

Disposable gel syringe and blunt needles

For injecting electrolyte gel into the head caps and also cup electrodes.

Item details	Comments	Item number	PU
Syringe with 2 blunt needles	needle length 8mm	E-7	1 set
Gel syringes	Luer Lock	E-7B	125 pcs.
Blunt needles steel	needle length 25mm	DISP00025	100 pcs.
Blunt needles steel	needle length 18mm	DISP00018	100 pcs.
Blunt needles plastic	needle length 12mm	E-8BK-GRÜN	50 pc. + syringe
Blunt needles plastic	needle length 12mm	E-8BK-BRAUN	50 pc. + syringe
Syringe with 2 needles	needle length 12mm	E-7BK-BRAUN	1 set
Syringe with 2 needles	needle length 12mm	E-7BK-GRÜN	1 set



Electrode cleaning

Wooden sticks with pointed and flat side, cotton buds or cleaning brushes for careful cleaning of electrodes. Thorough cleaning prevents artefacts.

Item details	Comments	Item number	PU
Wooden sticks	flat and pointed side	E-26	100 pcs.
Cleaning brushes	Synthetic fibres	PUL00000025	25 pcs.
Cotton buds	extra long handle	SWAPS	100 pcs.

Contact gel / electrode gel

Electrolyte gel has been specially designed for conductance with various electrode caps, to guarantee the best possible reduction in electrode resistance.

Item details	Comments	Item number	PU
ECI Electro-Gel	480g jar	E-9	1 pc.
ECI Electro-Gel	960g jar	E-10	1 pc.
ECI Electro-Gel	3780g jar	E-11	1 pc.



NEURGEL

Neurgel is a flexible, highly conductive, saline, water-soluble gel with a pH value of 6 to 7 designed specially for EEG, EMG and EP conductors.

Item details	Comments	Item number	PU
NEURGEL	250g bottle	NEURGEL250F	1 pc.
NEURGEL	250g jar	NEURGEL250V-3	3 pcs.

IVORY washing emulsion for system caps

Special cleaning emulsion which leaves no residues, unlike traditional cleaning agents.

Item details	Comments	Item number	PU
IVORY washing emulsion	700ml bottle	E-16-F	1 pc.

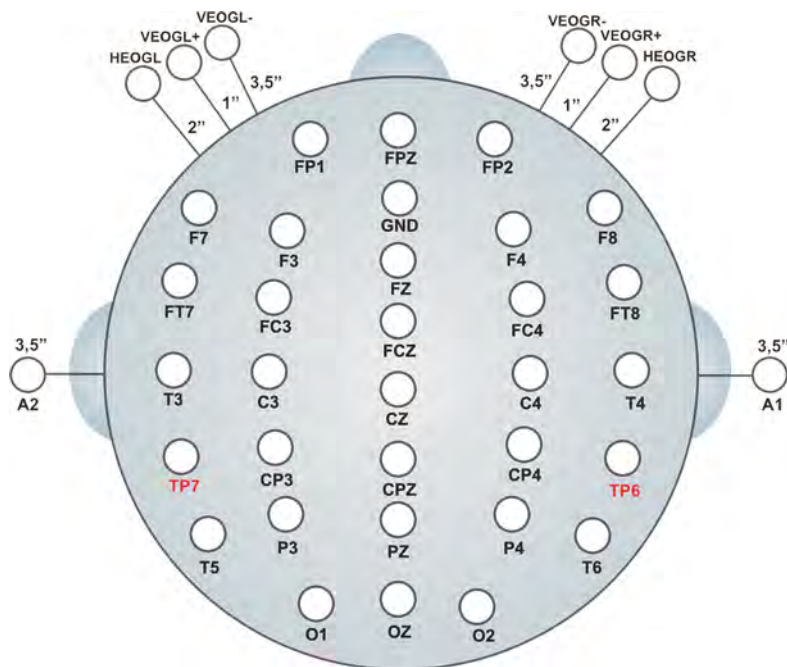


ELECTROCAPS - CUSTOMER CAP

Selection: Example of ElectroCap with 32+8 electrodes

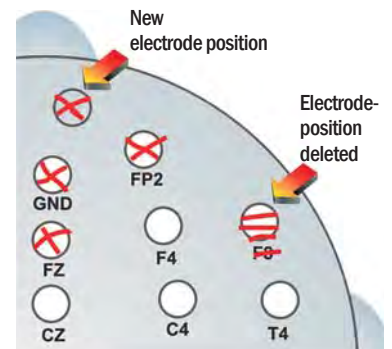
You can view other ElectroCap diagrams on our website at www.gvb-gelimed.de

- Step 1:** The diagram below shows the standard positions for the electrodes on this cap. Please mark the standard electrodes which you would like to have positioned with an X on this printout. If you would like to have individual electrodes positioned in places other than the preset positions, please mark an X on the corresponding position(s) and identify these new electrode positions (eg C4). Then clearly delete the standard position which should be omitted in their place. (See example illustrated).
- Step 2:** Choose the size of cap (field: "Cap size")
- Step 3:** Describe again in brief with key words the arrangement you would like us to supply.
- Step 4:** Please choose the plug configuration from the illustration below and specify the number of plugs.
- Step 5:** Complete the order details and fax this printout to us at the number below.



You can view other options with 64 and 128 electrodes on our website at www.gvb-gelimed.com

Example



Cap size:

Description:

Plug configuration:

Name / Institution:

Contact:

Address:

Telephone:

25-channel plug, number:

37-channel plug, number:

50-channel plug, number:

Connecting the machine

Connect the ElectroCap to all EEG machines using the pre-amplifier adapter.

Each cable or each connection pin at the pre-amplifier adapter is marked with colours for easy identification. The combination of cable colour and connection pin colour determines the electrode position of each single cable.

The single cables of the pre-amplifier adapter are separated in a way that they fit to the pre-amplifiers of all customary EEG machines. A pre-amplifier which is particularly large may require a larger distance between the cables. In this case, we recommend to separate the cables equally as far as required in order to avoid tensions of the single cables.

Cleaning and disinfection instructions

The information regarding cleaning and disinfection is part of the information attached to the product.

If there is insufficient time for drying the cap between the individual sessions, carefully wipe the cap using a terry cloth or blow-dry the cap at medium heat. Even if the cap feels slightly wet, it is suitable for immediate reuse.

The metallic electrode discs must be cleaned thoroughly after each monitoring. Otherwise, an oxide layer forms on the electrode discs which prevents good work results. Gel residues dried up on the electrodes function as an isolator and prevent good contact resistances.

Please make sure that the plug is not put into liquids when cleaning and disinfecting.

Thoroughly rinse the cap with water after disinfecting to remove residues of the disinfectant.

NEURO.TAB.

SURFACE ADHESIVE ELECTRODES
ECG EEG EMG EP IOM



NEURO Accessories

Three ranges
from a single source

NEURO.DART.

EEG EMG EP IOM
SUBDERMAL NEEDLE ELECTRODES



NEURO.CUP.

CUP ELECTRODES
EEG EMG EP



NEURO-ACCESSORIES / Adhesive electrodes



NEUROTAB adhesive electrode

Disposable adhesive electrodes come in various shapes, sizes and types. However, whether used with a fixed connecting cable or as a press-stud version, all adhesive electrodes from GVB-geliMED are given a special solid gel adhesive coating which also allows them to be attached several times to the same patient without losing a great deal of their original adhesive force. Furthermore, all adhesive electrodes can be used for ECG recordings.



DENIS 15 x 20mm, disposable adhesive electrode, coated with solid gel.

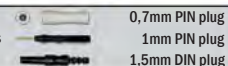


Item number	Cable length					
	8cm	15cm	60cm	100cm	150cm	250cm
with 0,7mm plug	DENIS00807 DENIS00807-H PU: 12 pcs.	DENIS01507 DENIS01507-H PU: 12 pcs.				
with 1mm plug	DENIS00830 DENIS00830-H PU: 12 pcs.					
with 1,5mm DIN plug		DENIS01526 DENIS01526-H PU: 6 pcs.	DENIS06026 DENIS06026-H PU: 6 pcs.	DENIS10026 DENIS10026-H PU: 6 pcs.	DENIS15026 DENIS15026-H PU: 6 pcs.	DENIS25026 DENIS25026-H PU: 6 pcs.

Item numbers for packaging unit (PU).

■ 20 x PU ■ 10 x PU

Connector types



DENIL 20 x 25mm, disposable adhesive electrode, coated with solid gel.

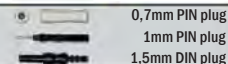


Item number:	Cable length					
	8cm	15cm	60cm	100cm	150cm	250cm
with 0,7mm plug	DENIL00807 DENIL00807-H PU: 12 pcs.	DENIL01507 DENIL01507-H PU: 12 pcs.				
with 1mm plug	DENIL00830 DENIL00830-H PU: 12 pcs.					
with 1,5mm DIN plug		DENIL01526 DENIL01526-H PU: 6 pcs.	DENIL06026 DENIL06026-H PU: 6 pcs.	DENIL10026 DENIL10026-H PU: 6 pcs.	DENIL15026 DENIL15026-H PU: 6 pcs.	DENIL25026 DENIL25026-H PU: 6 pcs.

Item numbers for packaging unit (PU).

■ 20 x PU ■ 10 x PU

Connector types



Press-stud adhesive electrodes, coated with solid gel.

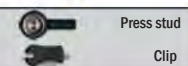


Item number	Dimensions						
	15x20mm	20x25mm	20mm	24mm	28x22mm	35x45mm	40x90mm
as for DENIS	as for DENIS	as for DENIL	Round	Round	Rectangular	Rectangular	Rectangular
DENIS01520 DENIS01520-H PU: 20 pcs.	DENIL02025 DENIL02025-H PU: 20 pcs.	CDES000020 CDES000020-H PU: 25 pcs.	CDES000024 CDES000024-H PU: 25 pcs.	CDES002822 CDES002822-H PU: 25 pcs.	CDES003545 CDES003545-H PU: 4 pcs.	CDES004090 CDES004090-H PU: 4 pcs.	

Item numbers for packaging unit (PU).

■ 20 x PU ■ 10 x PU

Connector types



All disposable adhesive surface electrodes are supplied in the new protective packaging with a zip fastener. This allows you to protect your self-adhesive electrodes continuously from the first time you use them, and to store them safely.



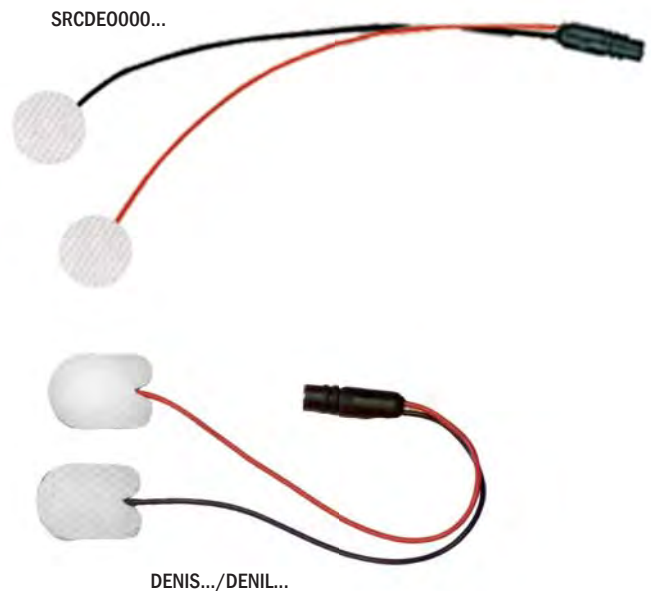
NEW

with reclosable zip fastener

Disposable adhesive electrode

These disposable adhesive surface electrodes are supplied in pairs, with a choice between 15x20 mm and 25x20 mm conducting surfaces. Or as round electrodes with a diameter of 20 mm or 24 mm. The electrodes are provided with a 140 mm long cable and multi-function plug. See page 3-12 for the appropriate connection cable.

	Item number	PU
Adhesive electrode 15 x 20mm	DENIS01500	20 x 6 pcs.
Adhesive electrode 25 x 20mm	DENIL01500	20 x 6 pcs.
Adhesive electrode round 20mm	CDE02001500	20 x 6 pcs.
Adhesive electrode round 24mm	CDE02401500	20 x 6 pcs.




See page 1-10 for the appropriate connection cable.



Disposable adhesive surface electrodes (round)


Self-adhesive electrodes with solid gel coating, diameter 24 mm or 20mm, with coloured cables and 1.5 mm DIN plugs.

Item details	Comments	Item number	PU
20mm electrode	with 60cm cable	CDE0206026-H	10 x 3 pcs.
20mm electrode	with 100cm cable	CDE0201026-H	10 x 3 pcs.
20mm electrode	with 150cm cable	CDE0201526-H	10 x 3 pcs.
24mm electrode	with 60cm cable	CDE0246026-H	10 x 3 pcs.
24mm electrode	with 100cm cable	CDE0241026-H	10 x 3 pcs.
24mm electrode	with 150cm cable	CDE0241526-H	10 x 3 pcs.
<i>Other cable lengths and plug options on request.</i>			
Connector		1,5mm DIN plug	



Disposable adhesive surface electrodes RADIOLUZENT

Self-adhesive electrodes with solid gel coating, 24mm diameter, with 1.5mm DIN plugs. RADIOLUCENT, suitable for X-ray.

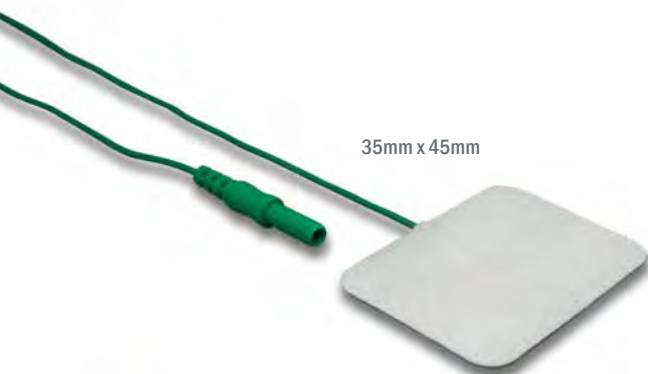
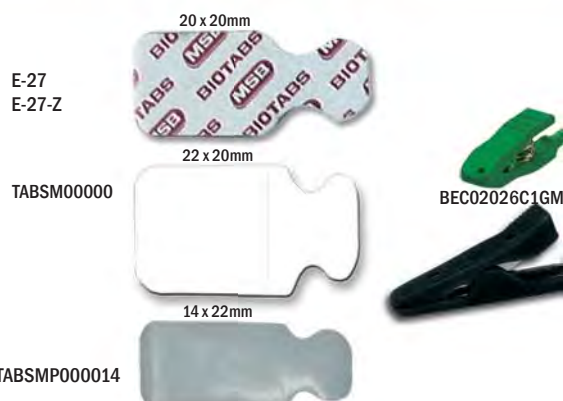
Item details	Comments	Item number	PU
24mm electrode	with 60cm cable	CDER246026-H	20 x 3 pcs.
24mm electrode	with 100cm cable	CDER241026-H	20 x 3 pcs.
24mm electrode	with 150cm cable	CDER241526-H	20 x 3 pcs.
24mm electrode	with 250cm cable	CDER242526-H	20 x 3 pcs.
<i>Other cable lengths and plug options on request.</i>			
Connector		1,5mm DIN plug	



TAB adhesive electrodes


Pre-pasted disposable surface TAB electrode for EKG. For use in conjunction with alligator clip cables.

Item details	Comments	Item number	PU
TAB electrode	20 x 20mm Ag/AgCl	E-27	100 pcs.
TAB electrode	20 x 20mm Tin	E-27-Z	100 pcs.
TAB electrode	22 x 20mm Ag/AgCl	TABSM0000025	25 x 100 pcs.
TAB electrode	14 x 22mm Ag/AgCl	TABSMP000014	100 pcs.
SET: 3 Kabel á 20cm	Red, Green, Black	BEC02026C1GM	1 Set



Disposable surface grounding adhesive electrode

Self adhesive, with solid-gel coated adhesive electrode with 1,5mm DIN plug.

Item details	Comments	Item number	PU
Ground electrode	with 100cm cable	DENIG10026-H	10 x 4 pcs.
Ground electrode	with 150cm cable	DENIG15026-H	10 x 4 pcs.
Ground electrode	with 100cm cable	DENIG10026	20 x 4 pcs.
Ground electrode	with 150cm cable	DENIG15026	20 x 4 pcs.
Connector		1,5mm DIN plug	

Cup electrodes

In choosing the Cup electrodes you use, you should consider not only the physical characteristics of the electrode materials, but also the shape of the electrodes. Electrodes with a very high shape require substantially more contact agent. These electrodes often have a very flat and thin edge.

Electrodes with a flat shape and wide edge offer the largest direct skin contact and require substantially less contact agent.

All Cup electrodes are suitable for use in EMG, EP and EEG. The plug-in systems are compatible with all EMG, EP and EEG equipment.

IMPORTANT

Because of the plethora of possible combinations such as: type, shape, size, materials, cable lengths and plug configurations, we have brought all the ordering information together for you in summary form on pages 5-4 of this chapter.



Type and shape of Cup electrodes

When choosing the right Cup electrode, in addition to the material, the shape is also a major factor. Based on the criteria already mentioned above, GVB-geliMED offers a wide range of stamped electrodes, electrodes with plastic covering and spider electrodes.

It is wrong to assume that a larger electrode diameter is beneficial because it can take more conducting gel or paste. The type of conducting paste or cream you use is not important. The direct contact of the skin with the electrode is ultimately the deciding factor. We have developed the Spider electrode for this purpose; its special shape has precisely this characteristic.

Depending on the enquiry or type of conductance (EP, EEG or EMG), you should make sure in choosing your electrode that the electrode you select meets all your requirements.



Silver (Ag) Electrodes

Pure silver electrodes are electrodes which can be polarised. They set slow EEG frequencies below 10 Hz against a resistance rising exponentially steeply with the decrease in frequency and therefore lead to a distortion of the EEG signal. Pure silver electrodes are therefore not suited to EEG conductance, but are the preferred choice for EP conductance, as slow frequencies (undesirable drift) are not recorded.

Item details	Comment	Item number	PU
Cup-electrodes	with 50cm cable	DESM052600	10 pcs.
Cup-electrodes	with 100cm cable	DESM102600	10 pcs.
Cup-electrodes	with 150cm cable	DESM152600	10 pcs.
Cup-electrodes	with 200cm cable	DESM202600	10 pcs.
Cup-electrodes	with 250cm cable	DESM252600	10 pcs.
	1,5mm DIN plug		


NEURO-ACCESSORIES / Cup electrodes

NEURO.CUP.
CUP-ELEKTRODEN
EEG EMG EP

Gold (Au) and Ag/AgCl electrodes, stamped

The base material of the gold and Ag/AgCl Cup electrodes offered by GVB-geliMED consists of silver and is coated with either a gold or Ag/AgCl alloy. The thickness of the coating is 3 μ , although other electrodes in common use only have a coating of 2 μ . The thicker the coating, the better and longer the serviceable life of the electrode.

Item details	Comments	Item number	PU
Gold Cup-electrodes	with 50cm cable	DEGM052600	10 pc.
Gold Cup-electrodes	with 100cm cable	DEGM102600	10 pc.
Gold Cup-electrodes	with 150cm cable	DEGM152600	10 pc.
Gold Cup-electrodes	with 200cm cable	DEGM202600	10 pc.
Gold Cup-electrodes	with 250cm cable	DEGM252600	10 pc.
Ag/AgCl Cup-electrodes	with 50cm cable	DAGM052600	10 pc.
Ag/AgCl Cup-electrodes	with 100cm cable	DAGM102600	10 pc.
Ag/AgCl Cup-electrodes	with 150cm cable	DAGM152600	10 pc.
Ag/AgCl Cup-electrodes	with 200cm cable	DAGM202600	10 pc.
Ag/AgCl Cup-electrodes	with 250cm cable	DAGM252600	10 pc.

 1,5mm DIN plug



diameter 10mm
with anti-kink device




Sintered silver chloride (AgCl) electrodes

Sintered Ag/AgCl electrodes offer all the benefits of Ag/AgCl electrodes described above for EEG conductance, but save on constant mechanical, chemical or electrolytic cleaning and re-chlorination. They are made of a mixture of silver (Ag) and silver chloride (AgCl) powder which is compressed under pressure and temperature, and in comparison with traditional electrodes, which through the chlorination process are covered only in a waferthin Ag/AgCl layer on the surface, offer significant advantages. Possible interference in EEG recordings already described, which occur due to the frequent use of electrodes, or electrodes which have become unstable as a result of incorrect or inadequate care, or due to Ag/AgCl surfaces which are mechanically damaged, does not occur with sintered electrodes.




Sintered EEG-electrodes with white cable

Item details	Comments	Item number	PU
14/6mm, 70cm cable	with 1,5mm DIN plug	Q52-326-B	1 pair
14/6mm, 100cm cable	with 1,5mm DIN plug	Q52-426-B	1 pair
14/6mm, 150cm cable	with 1,5mm DIN plug	Q52-626-B	1 pair
14/6mm, 200cm cable	with 1,5mm DIN plug	Q52-726-B	1 pair
14/6mm, 250cm cable	with 1,5mm DIN plug	Q52-826-B	1 pair

 1,5mm DIN plug

Sintered EEG-electrodes with colored cable

Item details	Comment	Item number	PU
10/5mm, 50cm cable	with 1,5mm DIN plug	DSTS052600	1 pc.
10/5mm, 100cm cable	with 1,5mm DIN plug	DSTS102600	1 pc.
10/5mm, 150cm cable	with 1,5mm DIN plug	DSTS152600	1 pc.
10/5mm, 200cm cable	with 1,5mm DIN plug	DSTS202600	1 pc.
10/5mm, 250cm cable	with 1,5mm DIN plug	DSTS252600	1 pc.

 1,5mm DIN plug




diameter 10mm
recording area 5mm

Cup electrodes - gold

For easy using you get the casted golden cup electrodes with 10 different colored cables. Cables are made of teflon.

Item details	Comments	Item number	PU
30cm cable	diameter 10mm	DGGOAT032600	10 pcs.
60cm cable	diameter 10mm	DGGOAT062600	10 pcs.
75cm cable	diameter 10mm	DGGOAT0752600	10 pcs.
120cm cable	diameter 10mm	DGGOAT122600	10 pcs.
150cm cable	diameter 10mm	DGGOAT152600	10 pcs.
180cm cable	diameter 10mm	DGGOAT182600	10 pcs.
200cm cable	diameter 10mm	DGGOAT202600	10 pcs.
240cm cable	diameter 10mm	DGGOAT242600	10 pcs.
300cm cable	diameter 10mm	DGGOAT302600	10 pcs.

i All electrodes also available with 2mm plug
 1,5mm DIN plug



GRASS Cup-Electrodes with 1,5mm DIN plug




Item details	10mm Gold	PU
31cm cable	FE5GH-12	10 pc.
61cm cable	FE5GH-24	10 pc.
76cm cable	FE5GH-30	10 pc.
122cm cable	FE5GH-48	10 pc.
152cm cable	FE5GH-60	10 pc.
183cm cable	FE5GH-72	10 pc.
244cm cable	FE5GH-96	10 pc.
304cm cable	FE5GH-120	10 pc.

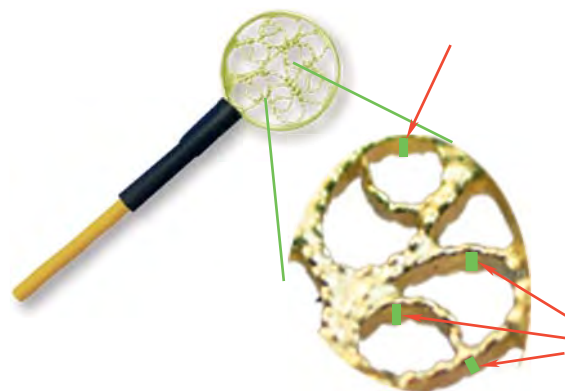
Spider- (Net) electrode

Because of its special design, structure and low weight, the Spider electrode is a good alternative to the traditional Cup electrodes. Spider electrodes can be used with adhesive conducting paste as an alternative to fixing with collodion. Because the adhesive conducting paste also spreads into the spaces between the Spider electrode, this guarantees an outstanding fit.

Item details	Comments	Item number	PU
Gold - diameter 10mm	with 100cm cable	SPIDER101026G	10 pcs.
Gold - diameter 10mm	with 150cm cable	SPIDER151026G	10 pcs.
Gold - diameter 10mm	with 200cm cable	SPIDER201026G	10 pcs.
Gold - diameter 6mm	with 100cm cable	SPIDER100626G	10 pcs.
Gold - diameter 6mm	with 150cm cable	SPIDER150626G	10 pcs.
Gold - diameter 6mm	with 200cm cable	SPIDER200626G	10 pcs.
Ag/AgCl- diameter 10mm	with 100cm cable	SPIDER101026	10 pcs.
Ag/AgCl- diameter 10mm	with 150cm cable	SPIDER151026	10 pcs.
Ag/AgCl- diameter 10mm	with 200cm cable	SPIDER201026	10 pcs.
Ag/AgCl- diameter 6mm	with 100cm cable	SPIDER100626	10 pcs.
Ag/AgCl- diameter 6mm	with 150cm cable	SPIDER150626	10 pcs.
Ag/AgCl- diameter 6mm	with 200cm cable	SPIDER200626	10 pcs.

 1,5mm DIN plug

diameter 10mm




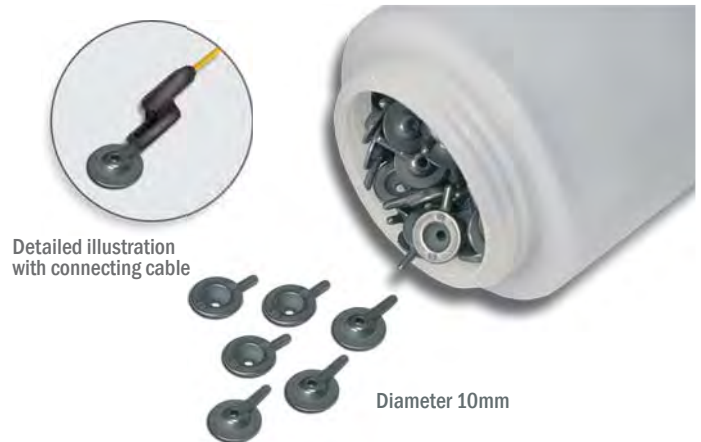
cut from spider electrode

Width of the conductor for better recording results

Disposable Ag/AgCl Cup electrodes


Disposable electrodes are an alternative to the traditional Ag/AgCl electrodes. The low cost enables these electrodes to be used for polygraph and EP conductance. The base material is made of plastic coated with a layer of Ag/AgCl.

Item details	Comments	Item number	PU
Cup electrodes	Ag/AgCl (disposable)	DAGD00000	500 pcs.
Cable 100cm	with 1,5mm DIN plug	DECS102600	10 pcs.
Cable 150cm	with 1,5mm DIN plug	DECS152600	10 pcs.
Connector	 1,5mm DIN plug		




Silver-chlorinated disposable Cup electrode - with fixed connecting cable

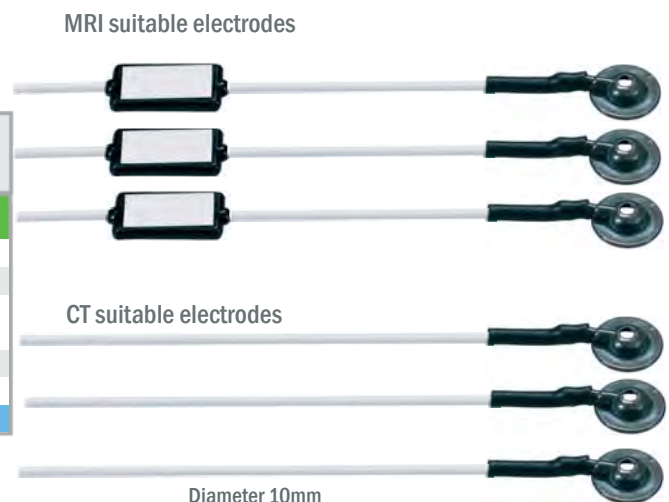
Silver-chlorinated disposable EEG Cup electrode with cables of various colours and contact-protected 1.5mm DIN plug.

Item details	Comments	Item number	PU
Disposable Cup electrode	with 100cm cable	DAGD102600	10 pcs.
Disposable Cup electrode	with 150cm cable	DAGD152600	10 pcs.
Disposable Cup electrode	with 200cm cable	DAGD202600	10 pcs.
Connector	 1,5mm DIN plug		

Disposable MRI and CT Ag/AgCl Cup-Electrode with fixed connecting cable - white

MRI electrodes make it possible to benefit from MRI diagnostic techniques.

Item details	Comment	Item number	PU
MRI Cup-Electrodes	with 100cm cable	DAGD102600MRI	1 pcs.
MRI Cup-Electrodes	with 150cm cable	DAGD152600MRI	1 pcs.
MRI Cup-Electrodes	with 200cm cable	DAGD202600MRI	1 pcs.
CT Cup-Electrodes	with 100cm cable	DAGD102600	1 pcs.
CT Cup-Electrodes	with 150cm cable	DAGD152600	1 pcs.
CT Cup-Electrodes	with 200cm cable	DAGD202600	1 pcs.
	 1,5mm DIN plug		



Other plug variations, cable lengths and colours on request.



Dual side adhesive rings

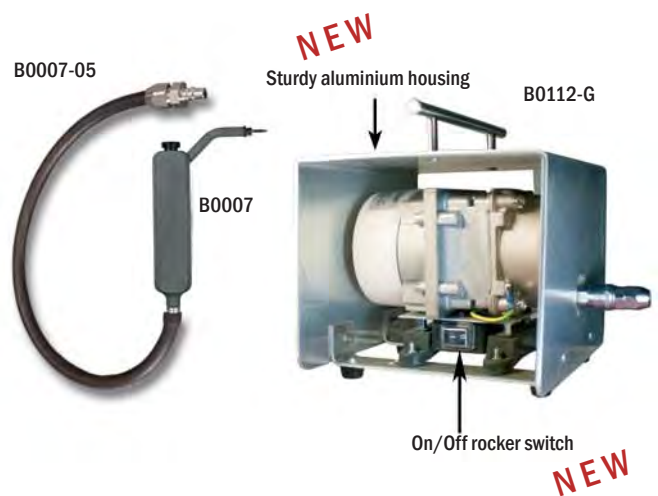
The dual side adhesive rings for cup electrodes stick secure for longer times. Available in different sizes.

Item details	Item number	PU
40 x 16mm diameter	T-01	500 pcs.
30 x 10mm diameter	T-02	500 pcs.
20 x 8mm diameter	T-03	500 pcs.
20 x 9,5mm diameter	T-04	500 pcs.
30 x 15mm diameter	T-05	500 pcs.
13 x 5mm diameter	T-06	500 pcs.
20 x 5mm diameter	T-08	500 pcs.
25 x 11mm diameter	T-09	500 pcs.

Applicator and compressor

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

Item details	Comments	Item number	PU
Applicator		B0007	1 pc.
Compressor + rocker switch and air pistol	with 2,5m tube	B0112	1 Set
Compressor + rocker switch, air pistol and housing	aluminum	B0112-G	1 Set
Replacement tip		B0113	1 pc.
Replacement tube	running meter	B0007-05	1 pc.
Housing		B0116	1 pc.
On/Off rocker switch		B0117	1 pc.
Coupler tube		463022400	1 pc.
Coupler device		463121200	1 pc.



CHINAGRAPH Fat pen

For marking the electrode positions.

Item details	Comments	Item number	PU
CHINAGRAPH fat pen	red	B0012-1	1 pc.
CHINAGRAPH fat pen	blue	B0012-2	1 pc.
CHINAGRAPH fat pen	black	B0012-3	1 pc.
CHINAGRAPH fat pen	yellow	B0012-4	1 pc.
CHINAGRAPH fat pen	red	B0012-1-S	12 pcs.
CHINAGRAPH fat pen	blue	B0012-2-S	12 pcs.
CHINAGRAPH fat pen	black	B0012-3-S	12 pcs.
CHINAGRAPH fat pen	yellow	B0012-4-S	12 pcs.



Electrode cleaner

Wooden stick with pointed and flat side, swaps or cleaning brushes from plastic, for gentle cleaning of electrodes.

Item details	Comments	Item Number	PU
Wooden stick	pointed and flat side	E-26	100 pcs.
Cleaning brushes	Plastic fibers	PUL0000025	25 pcs.
Swaps	Extra long handle	SWAPS	100 pcs.



Measure tape

Tape measure to determine the head circumference for the selection of the exact cover size.

Item details	Comments	Item number	PU
Measure tape	Length: 143cm	GVB-ME-12	1 pc.
Measure tape	Length: 205cm	ME-12	1 pc.



Special colour-coded measuring tape for determining the size of MultiCap caps



GVB-ME-12

Reusable blunt needle kit

Blunt needle for filling cup electrodes and system-cap electrodes with electrode gel.

Item details	Comments	Item Number	PU
Blunt needle	reusable	53077	1 pc.



Disposable gel syringe and blunt needles

For injecting electrolyte gel into the head caps and also cup electrodes.

Item details	Comments	Item number	PU
Syringe with 2 blunt needles	needle length 8mm	E-7	1 set
Gel syringes	Luer Lock	E-7B	125 pcs.
Blunt needles steel	needle length 25mm	DISP00025	100 pcs.
Blunt needles steel	needle length 18mm	DISP00018	100 pcs.
Blunt needles plastic	needle length 12mm	E-8BK-GRÜN	50 pc. + syringe
Blunt needles plastic	needle length 12mm	E-8BK-BRAUN	50 pc. + syringe
Syringe with 2 needles	needle length 12mm	E-7BK-BRAUN	1 set
Syringe with 2 needles	needle length 12mm	E-7BK-GRÜN	1 set



Steel needle GVB Ø 1,7mm

Plastic needle GVB Ø 1,2mm

Plastic needle GVB Ø 1,8mm



GIGASEPT FF-neu

Liquid disinfectant with cleaning effect

Item details	Comments	Item number	PU
GIGASEPT FF-neu	2l canister	GIGASEPT-FFneu-2L	1 pc.
GIGASEPT FF-neu	5l canister	GIGASEPT-FFneu-5L	1 pc.

Korsolex PLUS

Aldehyd free disinfectant

Item details	Comments	Item number	PU
Korsolex PLUS	2l bottle	KORSOLEX-PLUS-2L	1 pc.
Korsolex PLUS	5l canister	KORSOLEX-PLUS-5L	1 pc.



Subdermal needle electrode (steel)

Subdermal needle electrodes (subdermal needles) offer the simplest and most reliable way of recording EMG signals. Due to the high number of application options, GVB-geliMED supplies a wide range of subdermal needles in all kinds of designs.

A relevant nerve pathway can be reliably monitored with subdermal needles during an operation. The electrodes can be supplied as autoclavable, reusable products as well as disposable products.

Available with 1,5mm DIN plug.

All our subdermal needles and corkscrew electrodes are certified and licensed for monitoring as well as stimulation

Disposable subdermal needle (steel)

Single colors

Needle length 13mm with diameter 0,40mm

Packaging unit: 25 pcs.

	100cm cable	150cm cable	250cm cable
Black:	MN4013D101	MN4013D151	MN4013D251
Red:	MN4013D102	MN4013D152	MN4013D252
Green:	MN4013D103	MN4013D153	MN4013D253
Yellow:	MN4013D104	MN4013D154	MN4013D254
White:	MN4013D105	MN4013D155	MN4013D255
Blue:	MN4013D106	MN4013D156	MN4013D256
Connector	1,5mm DIN plug		



Disposable subdermal needle (steel)

Color Set

Needle length and diameter

Cable length	Color	13mm/0,20mm	13mm/0,40mm	18mm/0,35mm	22mm/0,40mm
100cm	Colorpack 1:	MN2013D10S	MN4013D10S	MN3518D10S	MN4022D10S
150cm	Colorpack 1:	MN2013D15S	MN4013D15S	MN3518D15S	MN4022D15S
250cm	Colorpack 1:	MN2013D25S	MN4013D25S	MN3518D25S	MN4022D25S
Connector	1,5mm DIN plug				

Packaging unit: 24 pcs. - 4 x 6 colors

Colorpack 1:

* Further needles with

22mm / 0,40mm 8mm / 0,20mm 8mm / 0,40mm

on request



NEURO-Accessories / Needles



Disposable subdermal needle - steel

Needle length 12mm, 0,35mm diameter,
1mm PIN or 0,7mm PIN connector, 8cm cable

1mm PIN	Packaging unit: 5 x 5 pcs.	Item number: MN3512P105
1mm PIN	Packaging unit: 25 x 1 pc.	Item number: MN3512P125
1mm PIN	Packaging unit: 50 x 5 pcs.	Item number: MN3512P150
0,7mm PIN	Packaging unit: 5 x 5 pcs.	Item number: MN3512P817
0,7mm PIN	Packaging unit: 25 x 1 pc.	Item number: MN3512P827

Needle length 18mm, 0,35mm diameter,
1mm PIN connector, 8cm cable

Packaging unit: 5 x 5 pcs.	Item number: MN3518P105
Packaging unit: 25 x 1 pc.	Item number: MN3518P125
Packaging unit: 50 x 5 pcs.	Item number: MN3518P150



Disposable subdermal hook needle

with 0,35mm diameter,
1mm PIN connector, 8cm cable

Packaging unit: 5 x 5 pcs.	Item number: MN3512H105
Packaging unit: 25 x 1 pc.	Item number: MN3512H125
Packaging unit: 50 x 5 pcs.	Item number: MN3512H150



Disposable subdermal needle with 0,7mm PIN connector

The subdermal needle with 0,7mm PIN connector can be attached to connecting cable 1002MED71F and 2002MED71F. The 2-core or 3-core (100cm or 200cm long) cable can be equipped with a 5-channel DIN or 1,5mm DIN plug as required.

Packaging unit: 40 pcs. Item number: **MN3010F007**



MN3010F007



Illustration.
Needle connector

1mm Pin connector
to 1,5mm DIN connector



MN4013P1N1TR



MN4013P1N10R

Disposable scalp needle electrode for EMG/EP conductance

Disposable subdermal needle electrode made of platinum or steel with 13mm needle with 1mm Pin connector. The connecting cable is equipped with 1,5mm DIN plug

10 needles	steel	MN4013P1N10R
10 needles	titanium	MN4013P1N1TR

IOM - Neurosurgery needle electrodes



We ask for your attention. Important!!!

We are duty-bound to inform you that acupuncture needles are approved solely for acupuncture and not for any other types of recording.

The technical commission of the DGKN says the following on the subject:

As such, the current regulations do not permit the use of these acupuncture needles or insect pins for recording evoked potentials or any other electrophysiological signals. This also means that the user must assume responsibility in the event of any damage (e.g. due to erroneous signals, material-related complications, or similar).

You can read the advice given by the technical commission of the DGKN at <http://www.dgkn.de/richtlinien/verschiedenes/>.

Section 2 Paragraph 1 of the German regulations governing the operation of medical devices also stipulates that medical products may only be used in accordance with their intended purpose.

4



Disposable needle without cable

made of steel with 1mm connector, needle length 12mm, diameter 0,35mm.

Packaging unit: 25 x 1 pc.	Packaging unit: 5 x 5 pcs.
Item number: MN3512F125	Item number: MN3512F105
Packaging unit: 20 x 5 St.	Packaging unit: 50 x 5 St.
Item number: MN3512F100	Item number: MN3512F110

Connecting cable

with suitable 1mm socket and 1,5mm DIN plug

Item details	Comment	Item number	PU
1mm socket to 1,5mm DIN plug	100cm	MNC10PDINS	10 pcs.
1mm socket to 1,5mm DIN plug	150cm	MNC15PDINS	10 pcs.
1mm socket to 1,5mm DIN plug	250cm	MNC25PDINS	10 pcs.

Reusable subdermal needles

These reusable subdermal needles have a 2mm needle connection and can be connected to the standard EEG cable. 2mm spring connector on the electrode side.

Item details	Item number	PU
Length 12mm	SKR2BDINM	10 pcs.
0,40mm diameter, suitable connecting cable	SKR2BDINM	10 pcs.
each 2 cable Length 100cm		



Connecting cable

Packaging unit: 1 pc.



2 wire		0,7mm socket	1mm socket	1mm Pin
100cm		1,5mm DIN plug Item no. 1002MED26F	1,5mm DIN plug Item no. 1002P1N26F	1,5mm DIN plug Item no. 1002P26F
		5 pol. 270° DIN plug Item no. 1002MED71F	5 pol. 270° DIN plug Item no. 1002P1N71F	5 pol. 270° DIN plug Item no. 1002P71F
200cm		1,5mm DIN plug Item no. 2002MED26F	1,5mm DIN plug Item no. 2002P1N26F	1,5mm DIN plug Item no. 2002P26F
		5 pol. 270° DIN plug Item no. 2002MED71F	5 pol. 270° DIN plug Item no. 2002P1N71F	5 pol. 270° DIN plug Item no. 2002P71F
3 wire		0,7mm socket	1mm socket	1mm Pin
100cm		1,5mm DIN plug Item no. 1003MED26F	1,5mm DIN plug Item no. 1003P1N26F	1,5mm DIN plug Item no. 1003P26F
		5 pol. 270° DIN plug Item no. 1003MED71F	5 pol. 270° DIN plug Item no. 1003P1N71F	5 pol. 270° DIN plug Item no. 1003P71F
200cm		1,5mm DIN plug Item no. 2003MED26F	1,5mm DIN plug Item no. 2003P1N26F	1,5mm DIN plug Item no. 2003P26F
		5 pol. 270° DIN plug Item no. 2003MED71F	5 pol. 270° DIN plug Item no. 2003P1N71F	5 pol. 270° DIN plug Item no. 2003P71F

Disposable subdermal needle (twisted, steel)

Color Set

Needle length and diameter

Cable length	Color	13mm/0,20mm	13mm/0,40mm	18mm/0,35mm
100cm	Color Set 1:	MN2013D10A/S	MN4013D10A/S	MN3518D10A/S
	Color Set 2:	MN2013D10B/S	MN4013D10B/S	MN3518D10B/S
150cm	Color Set 1:	MN2013D15A/S	MN4013D15A/S	MN3518D15A/S
	Color Set 2:	MN2013D15B/S	MN4013D15B/S	MN3518D15B/S
250cm	Color Set 1:	MN2013D25A/S	MN4013D25A/S	MN3518D25A/S
	Color Set 2:	MN2013D25B/S	MN4013D25B/S	MN3518D25B/S

Connector  1,5mm DIN plug

Color Set 1



Color Set 2



Packaging unit: 2 x 10 Sets



Reusable subdermal needle (twisted, steel)

Color Set

Needle length and diameter

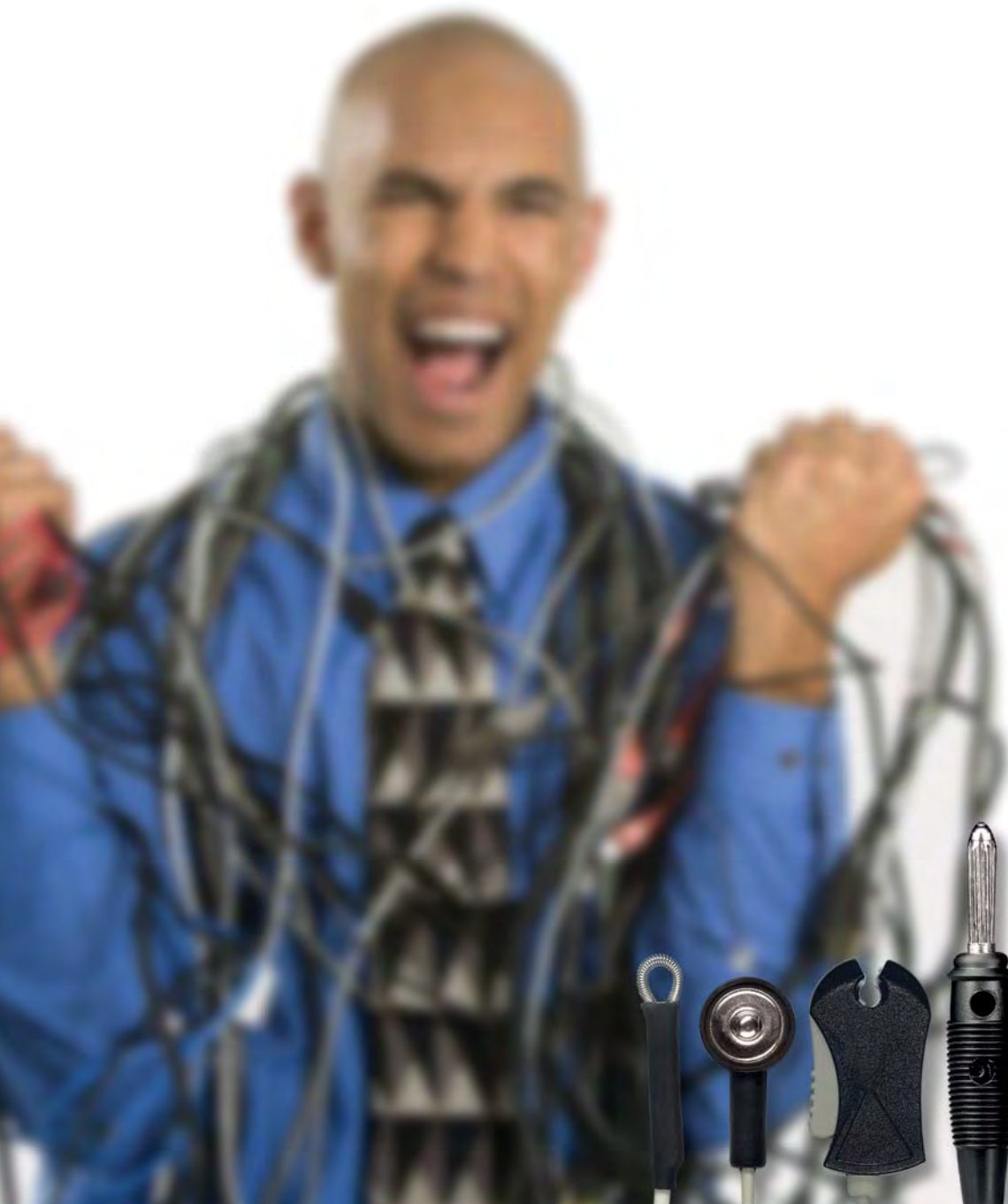
Cable length	Color	13mm/0,20mm	13mm/0,40mm	18mm/0,35mm
100cm	red / black:	MN2013D102TR	MN4013D102TR	MN3518D102TR
150cm	red / black:	MN2013D152TR	MN4013D152TR	MN3518D152TR
250cm	red / black:	MN2013D252TR	MN4013D252TR	MN3518D252TR

Connector  1,5mm DIN plug

Packaging unit: 1 Set by request other color combination available

NEURO.LINK.
CONNECTORS - CABLE - ADAPTER

Do not despair!
Here you will find your
connection!





ECG cable

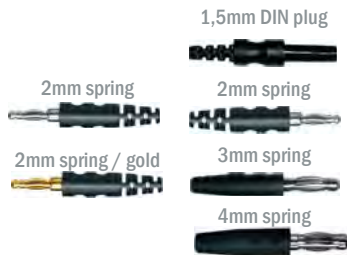
Item details	Comments	Item Number	PU
4mm spring / 1,5mm DIN	150cm cable	S R KR4BDINX-15	1 pc.
4mm spring / 2mm PIN	150cm cable	S R KR4B2BX-15	1 pc.
4mm spring / 3mm spring	150cm cable	S R KR4B3BX-15	1 pc.

EEG cable 2mm spring / 1,5mm DIN

Item details	Comments	Item Number.	PU
2mm spring / 1,5mm DIN	85cm cable	S R SKR2BDIN-KKX	10 pcs.
2mm spring / 1,5mm DIN	100cm cable	S R G B Y SKR2BDINX	10 pcs.
2mm spring / 1,5mm DIN	100cm cable	SKR2BDINM	10 pcs.
2mm spring / 1,5mm DIN	130cm cable	with white cables SKR2BDIN-KL	10 pcs.
2mm spring gold / 1,5mm DIN	100cm cable	S R G B Y SKR2BDINXG	10 pcs.
2mm spring gold / 1,5mm DIN	100cm cable	each 2 cable in SKR2BDINMG	10 pcs.

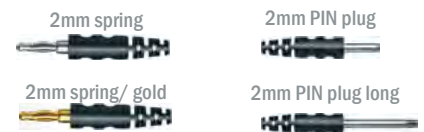


5



EEG cable

Item details	Comments	Item Number.	PU
2mm spring / 1,5mm DIN	85cm cable	S R SKR2BDIN-KKX-MD	10 pcs.
2mm spring gold / 1,5mm DIN	100cm cable	S R G B Y SKR2BDINX-MD	10 pcs.
2mm spring / 2mm spring	100cm cable	with white cables SKR2B2BW	10 pcs.
2mm spring / 3mm spring	85cm cable	S R SKR2B3B-KKX	10 pcs.
2mm spring / 4mm spring	85cm cable	S R SKR2B4B-KKX	10 pcs.



EEG cable 2mm spring / 2mm PIN

Item details	Comments	Item Number	PU
2mm spring / 2mm PIN	85cm cable	S R SKR2B2S-KKX	10 pcs.
2mm spring / 2mm PIN	100cm cable	S R G B Y SKR2B2SX	10 pcs.
2mm spring / 2mm PIN	100cm cable	with white cables SKR2B2S-KL	10 pcs.
2mm spring / 2mm PIN long	100cm cable	S R SKR2B2S-LX	10 pcs.



Clip Carbon cable

Item details	Comments	Item Number.	PU
Clip Carbon / 1,5mm DIN	90cm cable	with black cables SKRCTP090	10 pcs.
Clip Carbon / 4mm socket	90cm cable	with black cables SKRC4T090	10 pcs.
Clip Carbon / 1,5mm DIN	180cm cable	with black cables SKRCTP180	10 pcs.
Clip Carbon / 4mm socket	180cm cable	with black cables SKRC4T180	10 pcs.

Connecting cable

This cable with a length of 100cm, 150cm, 200cm is equipped with 1mm or 0,7mm socket or 1mm PIN plug -electrode side.

To use with:

- Disposable subdermal needle electrodes (SD51-111), (SD51-107)
- Disposable adhesive surface electrode (DENIS / DENIL)

		Cable length					
		100cm		150cm		200cm	
1,5mm DIN/ 1mm socket		single	MNC10PDINS	single	MNC15PDINS	single	MNC20PDINS
		double	MNC10PDINT2	double	MNC15PDINT2	double	MNC20PDINT2
		triple	MNC10PDINT3	triple	MNC15PDINT3	triple	MNC20PDINT3
		fivefold	MNC10PDINT5	fivefold	MNC15PDINT5	fivefold	MNC20PDINT5
1,5mm DIN/ 0,7mm socket		single	MNC10MEDDINS	single	MNC15MEDDINS	single	MNC20MEDDINS
		double	MNC10MEDDINT2	double	MNC15MEDDINT2	double	MNC20MEDDINT2
		triple	MNC10MEDDINT3	triple	MNC15MEDDINT3	triple	MNC20MEDDINT3
		fivefold	MNC10MEDDINT5	fivefold	MNC15MEDDINT5	fivefold	MNC20MEDDINT5
1,5mm DIN/ 1mm Pin		single	MNC10PIN1DINS	single	MNC15PIN1DINS	single	MNC20PIN1DINS
		double	MNC10PIN1DINT2	double	MNC15PIN1DINT2	double	MNC20PIN1DINT2
		triple	MNC10PIN1DINT3	triple	MNC15PIN1DINT3	triple	MNC20PIN1DINT3
		fivefold	MNC10PIN1DINT5	fivefold	MNC15PIN1DINT5	fivefold	MNC20PIN1DINT5

Packaging unit: **Single cable - 10 pcs.**
twisted cable - 2 pair



The length of twisted cables may vary

Connecting cable

Packaging unit: 1 pc.



		2 wire		
		0,7mm socket	1mm socket	1mm Pin
100cm	1,5mm DIN plug	Item no. 1002MED26F	Item no. 1002P1N26F	Item no. 1002P26F
	5 pol. 270° DIN plug	Item no. 1002MED71F	Item no. 1002P1N71F	Item no. 1002P71F
	1,5mm DIN plug	Item no. 2002MED26F	Item no. 2002P1N26F	Item no. 2002P26F
200cm	5 pol. 270° DIN plug	Item no. 2002MED71F	Item no. 2002P1N71F	Item no. 2002P71F
	3 wire			
			0,7mm socket	1mm socket
100cm	1,5mm DIN plug	Item no. 1003MED26F	Item no. 1003P1N26F	Item no. 1003P26F
	5 pol. 270° DIN plug	Item no. 1003MED71F	Item no. 1003P1N71F	Item no. 1003P71F
	1,5mm DIN plug	Item no. 2003MED26F	Item no. 2003P1N26F	Item no. 2003P26F
200cm	5 pol. 270° DIN plug	Item no. 2003MED71F	Item no. 2003P1N71F	Item no. 2003P71F

Multifunction cable for various applications

This multifunction cable can be used with needle electrodes from our "MYOLINE" needle program and with the stimulation / recording electrodes from our EMG multifunctional system.

Item details	Comments	Item Number	PU
100cm cable	with 5-pole connector	10000NNHF	1 pc.
100cm cable	with 5-pole conn. (Jäger-Toennies)	1000JTNNHF	1 pc.
100cm cable	with 1,5mm DIN plug	1000SCNHFN	1 pc.
100cm cable	with 5-pole connector	10000NNHF3	1 pc.
200cm cable	with 5-pole connector	100200NNHF	1 pc.
200cm cable	with 5-pole conn. (Jäger-Toennies)	100200SCNHFN	1 pc.
200cm cable	with 1,5mm DIN plug	100200JTNNHF	1 pc.
200cm cable	with 5-pole connector	100200NNHF3	1 pc.



5

Connecting cable

Suitable connecting cable for above disposable monopolar EMG needles with 1,5mm DIN connector.

Item details	Comments	Item number	PU
EMG cable	Length 76cm	MNH07626	1 pc.



Alligator clip cable to use with TAB-adhesive electrodes

This cable is equipped with a 1.5mm DIN connector and is available in two sizes.

Item details	Comments	Item Number	PU
Cable	100cm, black	KRKKDINS-10-MD	1 pc.
Cable	100cm, red	KRKKDINR-10-MD	1 pc.
SET: 3 cable á 100cm	red, green, black	KRKKDINM-10-K	1 Set
SET: 3 cable á 150cm	red, green, black	KRKKDINM-15-K	1 Set



Further connector variations, cable lengths and colors on request.



Clip cable

This clip cable to connect pressure button electrodes are available in a set with 3 colors and two lengths. The device-side connector is a 1.5mm DIN plug.

Item detail	Comments	Item number	PU
SET: 3 cable a 100cm	red, black, green	LEADC1026S3	1 Set
SET: 3 cable a 150cm	red, black, green	LEADC1526S3	1 Set
SET: 3 cable a 250cm	red, black, green	LEADC2526S3	1 Set

Loops connecting cable for push-button electrodes

This cable is equipped with a metal loop that can be used with our disposable adhesive electrodes snap. The cable has a length of 100cm or 150cm.

Item details	Comments	Item number	PU
100cm cable	1,5mm DIN plug	LEDCDE0026	1 pc.
150cm cable	1,5mm DIN plug	LEDCDE1526	1 pc.



5

Press button cable

Press button cable with differently colored plugs and 1,5mm DIN connector

Artikeldetails	100cm	150cm	250cm	PU
white plug	S2233100265	S2233150265	S2233250265	10 pcs.
red plug	S2233100262	S2233150262	S2233250262	10 pcs.
green plug	S2233100263	S2233150263	S2233250263	10 pcs.
yellow plug	S2233100264	S2233150264	S2233250264	10 pcs.
black plug	S2233100261	S2233150261	S2233250261	10 pcs.



Extension cable

Electrode side: 1,5mm DIN socket
Device side: 1,5mm DIN connector

Item details	Comments	Item Number	PU
Cable length 50cm		MNC05DDINS	10 pcs.
Cable length 100cm		MNC10DDINS	10 pcs.
Cable length 150cm		MNC15DDINS	10 pcs.
Cable length 200cm		MNC20DDINS	10 pcs.



Other adapter / cable combinations we produce for you on request.

Jumper Lead adapter cable

Electrode side: 1,5mm DIN socket
Device side: 1,5mm DIN connector

Item details	Comment	Item Number	PU
Cable length 15cm	black	Jump26261	5 pc.
Cable length 25cm	black	Jump26261-025	5 pc.
Cable length 15cm	red	Jump26262	5 pc.
Cable length 25cm	red	Jump26262-025	5 pc.
Cable length 15cm	green	Jump26263	5 pc.
Cable length 25cm	green	Jump26263-025	5 pc.



Adapter cable

Electrode side: 3-pole DIN socket 180°
Device side: for selection

Item details	Comments	Item Number	PU
2x 2mm connector	red/black	ADK-7521-00	1 pc.
2x 1,5mm DIN connector	red/black	ADK-7526-00	1 pc.



Adapter cable

Electrode side: 5-pole DIN socket 270°
Device side: for selection

Item details	Comments	Item Number	PU
2x 2mm connector	red/black	ADK-7321-00	1 pc.
2x 1,5mm DIN connector	red/black	ADK-7326-00	1 pc.



Adapter cable

Electrode side: 5-pole DIN socket 270°
Device side: for selection

Item details	Comments	Item Number	PU
3-pole DIN connector 180°		ADK-7362-00	1 pc.
5-pole DIN connector 180°		ADK-7372-00	1 pc.



Snap button cable

Snap button cable for Jäger-Toennis with 150cm cable length.

Item details	Comments	Item Number	PU
Snap button cable with 1,5mm DIN conn. - JägerTönnies		145115	1 pc.
Snap button cable with 4mm conn. - JägerTönnies		892133	1 pc.



Other adapter / cable combinations we produce for you on request.

ADAPTER

Plug-on adapter

Socket: 1,5mm DIN Socket
Connector: 2mm connector

Item details	Comments	Item Number	PU
Black		ADP02DIN	5 pcs.
Red		ADP02DIN2	5 pcs.



Plug-on adapter

Socket: 1,5mm DIN Socket
Connector: 2mm connector

Item details	Comments	Item Number	PU
Black		ADDIN2F01	5 pcs.
Red		ADDIN2F02	5 pcs.



Alligator clip

Socket: 2mm socket
Connection: Alligator clip

Item details	Comments	Item Number	PU
Black		CROCO01IS	5 pcs.
Red		CROCO02IS	5 pcs.
Green		CROCO03IS	5 pcs.



Clip adapter

Socket: 4mm socket
Connetion: EEG Clip

Item details	Comments	Item Number	PU
White		ADT-4633W	5 pcs.
Grey		ADT-4633G	5 pcs.
Red		ADT-4633R	5 pcs.

Press-stud cable

Socket: 4mm socket
Connection: Push button connection

Item details	Comments	Item Number	PU
Black		ADPT4F01	5 pcs.
Red		ADPT4F02	5 pcs.
Green		ADPT4F03	5 pcs.
Yellow		ADPT4F04	5 pcs.
White		ADPT4F05	5 pcs.



0,7mm PIN plug and socket

Connector		Colour variants
plug		<input type="checkbox"/>
socket		<input type="checkbox"/>

1mm PIN plug and socket

Connector		Colour variants
plug		<input type="checkbox"/> <input type="checkbox"/>
socket		<input type="checkbox"/> <input type="checkbox"/>

1,5mm DIN plug

Connector		Colour variants
plug		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
plug		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
plug		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

2mm plug

Connector		Colour variants
smooth		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
smooth long gold		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
spring		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
spring		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
fork		<input type="checkbox"/>

3mm plug

Connector		Colour variants
spring		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

4mm plug

Connector		Colour variants
spring		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
spring		<input type="checkbox"/> <input type="checkbox"/>
spring		<input type="checkbox"/>
socket		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Miscellaneous plugs

Connector		Colour variants
aligator clip		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
aligator clip		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
mini BNC		<input type="checkbox"/> <input type="checkbox"/>
push button		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
clip connector		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
clip connector		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
loopcable		<input type="checkbox"/>
Z-connector		<input type="checkbox"/>
mini clamp		<input type="checkbox"/>

Binder - connector

Connector		Colour variants
3 pol.		<input type="checkbox"/>
4 pol.		<input type="checkbox"/>
5 pol.		<input type="checkbox"/>

Binder - connector

Socket		Colour variants
3 pol.		<input type="checkbox"/>
4 pol.		<input type="checkbox"/>
5 pol.		<input type="checkbox"/>

3 pol. und 5 pol. connector

Connector		Colour variants
3 pol. 180°		<input type="checkbox"/>
5 pol. 180°		<input type="checkbox"/>
5 pol. 270°		<input type="checkbox"/>
5 pol. 360°		<input type="checkbox"/>

3 pol. und 5 pol. socket

Connector		Colour variants
3 pol. 180°		<input type="checkbox"/>
5 pol. 180°		<input type="checkbox"/>
5 pol. 270°		<input type="checkbox"/>
5 pol. 360°		<input type="checkbox"/>

Lemo

Socket		Colour variants
Lemo Serie P		<input type="checkbox"/>
Lemo Serie P		<input type="checkbox"/>
Lemo Serie S		<input type="checkbox"/>

NEURO.FLUID! PASTES - GELS - EMULSIONS

Pastes & Gels for every application



EVERI

Preparingpaste developed specifically to reduce the skin contact resistance. In preparation for use in EEG - EP - EMG - ECG

Item details	Comments	Item Number	PU
Skin preparing paste 160ml bottle		EVERY	1 btl.
Skin preparing paste 160ml bottle		EVERY-SET	24 btls.



NEURPREP

Modern skin preparing gel (recommended for use in sensitive skin). No skin irritation, pleasing to the patients.

Item details	Comment	Item number	PU
Skin preparing paste	120g tube	NPREP120T-3	3 pcs.

6

EPICONT

Electrode paste for abrasive skin preparation. To use even for long-term ECG.

Item details	Comment	Item Number	PU
Skin preparing paste	250g bottles	21708313	4 btls.



Skin Pure

Skin preparation paste with abrasive effect.

Item Details	Comments	Item Number	PU
Skin preparing paste	135g tube	SKIN-PURE	2 pcs.

NUPREP

Modern skin preparing gel (recommended for use in sensitive skin). No skin irritation, pleasing to the patients.

Item details	Comments	Item Number	PU
Skin preparing paste	114g tube	NUPREP-SET	3 pcs.
Skin preparing paste	25g tube	NUPREP-MINI-SET	6 pcs.
Skin preparing paste	114g tube	NUPREP-BOX	50 x 3 pcs.



PASTES AND GELS/ Adhesive and Adhering



TEN 20

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

Item details	Comments	Item Number	PU
TEN 20	115g jar	TEN-20-SET	3 pcs.
TEN 20	115g tube	TEN-20-T-SET	3 pcs.
TEN 20	230g jar	TEN-20-8-SET	3 pcs.
TEN 20	115g jar	TEN-20-BOX	50 x 3 pcs.
TEN 20	115g tube	TEN-20-T-BOX	50 x 3 pcs.
TEN 20	230g jar	TEN-20-8-BOX	25 x 3 pcs.



Cheaper in a bundle



EC-2

Specially developed adhesive conductive paste with excellent adhesion. In combination with our gold cup electrode this paste is ideal for long-term recording.

Item Details	Comments	Item Number	PU
EC-2	100g tube	EC-2	1 pc.
EC-2	100g tube	SEC-2	10 pcs.

ELEFIX

Adhesive conductive paste for EEG and EP-recording.

Item details	Comments	Item Number	PU
ELEFIX	180g tube	ELEFIX-T	1 pc.
ELEFIX	400g jar	ELEFIX	1 pc.
ELEFIX	180g tube	ELEFIX-TS	10 pcs.
ELEFIX	400g jar	ELEFIX-S	3 pcs.



AC CREAM

AC Cream is a highly adherent, conductive contact cream. It is white, opaque and water soluble and has a pH of 6.6 up to 7.0.

Item details	Comments	Item Number	PU
AC CREAM	250g jar	ACCREAM250-3	3 pcs.
AC CREAM	100g jar	ACCREAM100-3	3 pcs.



CONDUCTIVE GELS



NEURGEL

Neurigel is a flexible, highly conductive, saline and water-soluble gel with a pH value of 6-7, which is especially for EEG, EMG, EP recordings were developed.

Item details	Comments	Item Number	PU
NEURGEL	250g bottle	NEURGEL250F	1 pc.
NEURGEL	250g jar	NEURGEL250V-3	3 pcs.

SIGNA Gel

Salt-free electrode gel for use in EEG - EP

Item details	Comments	Item Number	PU
SIGNA Gel	250g tube	SIGNA-GEL	1 pc.
SIGNA Gel	250g tube	SIGNA-GEL-S	12 pcs.



HELLIGE electrode gel

EEG - EKG contact gel for long term recording. No adhesive effect.

Item details	Comments	Item Number	PU
HELLIGE	250g bottle	21708306	4 btl.



Contact gel/Electrode gel

Electrolytgel is specially developed for the recording with different electro caps, to ensure the best possible reduction of the electrode resistance.

Item details	Comments	Item Number	PU
ECI Electro-Gel	480g jar	E-9	1 pc.
ECI Electro-Gel	960g jar	E-10	1 pc.
ECI Electro-Gel	3780g jar	E-11	1 pc.



SPECTRA Gel

Salt free electrode gel to be used for EEG / EP.

Item details	Comments	Item Number	PU
SPECTRA Gel	250g tube	SPECTRA	1 pc.
SPECTRA Gel	250g tube	SPECTRA-S	12 pcs.



CONDUCTIVE CREMES



HELLIGE CREME

EEG- and EKG-contact creme for long term recording. No adhesive effect.

Item details	Comments	Item Number	PU
HELLIGE CREME	250g bottle	21708305-E	1 pc.
HELLIGE CREME	250g bottle	21708305	4 pcs.

SYNAPSE

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

Item details	Comments	Item Number	PU
SYNAPSE	140g bottle	SYNAPSE	1 pc.
SYNAPSE SET	140g bottle	SYNAPSE-S	12 pcs.



SIGNA CREME

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

Item details	Comments	Item Number	PU
SIGNA CREME	142g bottle	SIGNA-CREME	1 pc.
SIGNA CREME	142g bottle	SIGNA-CREME-S	12 pcs.



CONDUCTIVE SPRAY

SIGNA SPRAY

Electrolyte spray for skin preparation. Bacteriostatic, hypoallergenic, no residue.

Item details	Comments	Item Number	PU
SIGNA SPRAY	250ml bottle	SIGNA-SPRAY	12 pcs.



Collodion

Special long term electrode adhesive. In combination with our conductive contact creme "synapse" or the electrolyte gel "neurgel". Collodion is especially well suited for long-term derivatives, which extend over several days.

Item details	Comments	Item Number	PU
Collodion	6,5ml tube	COLLODION-5/LV	20 pcs.
Collodion (high viscosity)	6,5ml tube	COLLODION-5	20 pcs.

i Collodion should be kept at a temperature of +15 ° C to +25 ° C.



High viscosity



IVORY wash lotion for system caps

Special cleaning the emulsion, leaving as opposed to conventional cleaning products, no residue.

Item details	Comments	Item Number	PU
IVORY wash lotion	700ml bottle	E-16-F	1 pc.

GIGASEPT

Liquid disinfectant with cleaning effect.

Item details	Comments	Item Number	PU
GIGASEPT	2l canister	GIGASEPT-FFneu-2L	1 can.
GIGASEPT	5l canister	GIGASEPT-FFneu-5L	1 can.



Korsolex PLUS

Aldehyd free disinfectant

Item details	Comments	Item number	PU
Disinfectant	2l bottle	KORSOLEX-PLUS-2L	1 pc.
Disinfectant	5l canister	KORSOLEX-PLUS-5L	1 pc.



INFO

When using the recommended disinfectant solutions pay attention to the details of the manufacturer . GVB-geliMED can not guarantee the efficiency of the solution.

When using skin-preparation abrasive gels and/or pastes, such as "Every", "Skin Pure", "Nuprep", some people believe that they can save money if they produce their own skin-preparation gels/pastes. We cannot share this view and also point out that we do not guarantee the compatibility of gels/pastes when combining gels/pastes from self-production with the products offered by GVB-geliMED.

The products for skin preparation and for monitoring have been offered by GVB-geliMED for many years and can be used regardless of the manufacturer and without any previously known incompatibilities.

It is naturally the case that all abrasive emulsions are also conductive. However, they should not be used as a conductive agent, as firstly they are too abrasive, and secondly, due to their high salt content, too aggressive.

GVB-geliMED advises against mixtures which are abrasive for the skin preparation and that are used a contact agent at the same time.

Due to the frequently high concentration of the salt content (more than 0.9 %), the coatings of the electrodes can get damaged in such a way that their lifetime can be significantly reduced.

This is why we recommend using the conventional method and cleansing the skin with an emulsion specially designed for this purpose as well as the use of a special conductive gel or an adhesive paste afterwards.

Your study participants and your electrodes will appreciate it.

GVB-geliMED guarantees that the electrode materials are not extremely overused or damaged when using the offered preparations ordinarily - i.e. regardless of the usual signs of wear.

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 paste inappropriate,
artefacts

ACCESSORIES

Small helpers in daily medical practice



FOR DIFFERENT APPLICATIONS

Head measure tape

Head measure tape to determine the head circumference for the selection of the exact cap size.

Item details	Comments	Item number	PU
Measure tape	Length: 143cm	GVB-ME-12	1 pc.
Measure tape	Length: 205cm	ME-12	1 pc.



Special color coded measure tape, also usable for MultiCaps



GVB-ME-12

Disposable gel syringe and blunt needles

For injecting electrolyte gel into the head caps and also cup electrodes.

Item details	Comments	Item number	PU
Syringe with 2 blunt needles	needle length 8mm	E-7	1 set
Gel syringes	Luer Lock	E-7B	125 pcs.
Blunt needles steel	needle length 25mm	DISP00025	100 pcs.
Blunt needles steel	needle length 18mm	DISP00018	100 pcs.
Blunt needles plastic	needle length 12mm	E-8BK-GRÜN	50 pc. + syringe
Blunt needles plastic	needle length 12mm	E-8BK-BRAUN	50 pc. + syringe
Syringe with 2 needles	needle length 12mm	E-7BK-BRAUN	1 set
Syringe with 2 needles	needle length 12mm	E-7BK-GRÜN	1 set



Electrode cleaner

Wooden stick with pointed and flat side, swaps or cleaning brushes from plastic, for gentle cleaning of electrodes.

Item details	Comments	Item Number	PU
Wooden stick	Pointed and flat side	E-26	100 pcs.
Cleaning brushes	Plastic fibers	PUL0000025	25 pcs.
Swaps	Extra long handle	SWAPS	100 pcs.



Wooden stick



Cleaning brushes

Swaps

Reusable blunt needle kit

Blunt needle for filling cup electrodes and system-cap electrodes with electrode gel.

Item details	Comments	Item Number	PU
Blunt needle	Reusable	53077	1 pc.



Cable rack

The 10 arms of the cable rack offer sufficient space for storing the cables so they will not be damaged.

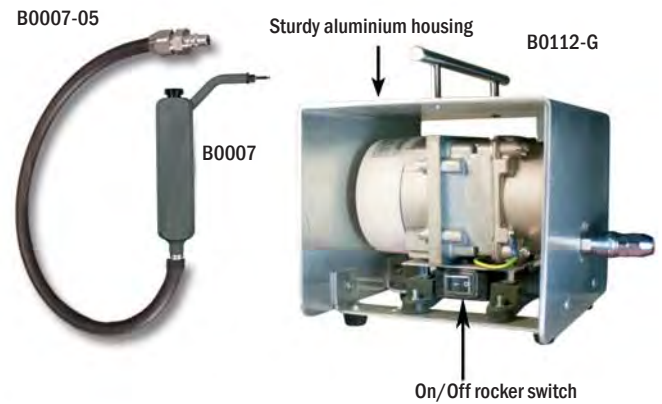
Item details	Comments	Item number	PU
Cable rack	Blue	016-400700	1 pc.



Applicator and compressor

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

Item details	Comments	Item number	PU
Applicator		B0007	1 pc.
Compressor + rocker switch and air pistol	with 2,5m tube	B0112	1 Set
Compressor + rocker switch, air pistol and housing	aluminum	B0112-G	1 Set
Replacement tip		B0113	1 pc.
Replacement tube	running meter	B0007-05	1 pc.
Housing		B0116	1 pc.
On/Off rocker switch		B0117	1 pc.
Coupler tube		463022400	1 pc.
Coupler device		463121200	1 pc.



CHINAGRAPH Fat pen

For marking the electrode positions.

Item details	Comments	Item Number	PU
CHINAGRAPH fat pen	Red	B0012-1	1 pc.
CHINAGRAPH fat pen	Blue	B0012-2	1 pc.
CHINAGRAPH fat pen	Black	B0012-3	1 pc.
CHINAGRAPH fat pen	Yellow	B0012-4	1 pc.

Velcro strap

Item details	Comments	Item number	PU
Velcro strap	30cm length	VELCROBLU30	1 pc.
Velcro strap	55cm length	VELCROBLU55	1 pc.
Velcro strap	100cm length	VELCROBLU100	1 pc.

Tec-i: The Velcro straps have a width of 20mm



Wide 20mm

Velcro strap

Paper

Paper for different EEG/EMG devices

Item details	Item number	PU
Book for NKD 110-2-150	170016054	5 books
ED 14 original	758250	1000 sheets
ED 24 original	170016054	1000 sheets
NK Neuropack 2/4 mini	NKD-110-150	25 x 300 sheets
Nihon Kohden	NKD-210T	1000 sheets
Nihon Kohden NK245 F	NKD-245/1	1000 sheets
NK Neuropack 2+ 80mm x 30m	NKD-QW80-3	Pack of 10
Sony Sonos100	UPP-100HA	10 rolls
Videoprinter Standard Resolution	UPP-110	1 roll
Videoprinter 110mm	KP61B	4 rolls
Videoprinter	UPP-110S	10 pcs.

Please check your paper before ordering - no withdrawal possible



More papers on request

GENERAL ACCESSORIES

FOR VARIOUS APPLICATIONS

Glass head / Styrofoam head

Glass head for storage or drying of all types of caps after cleaning it.

Item details	Comments	Item number	PU
Glass head	Perimeter 57cm	M058	1 pc.
Styrofoam head	Perimeter 54cm	30100500	1 pc.
Styrofoam head	Perimeter 58cm	3096600	1 pc.



Net Cap

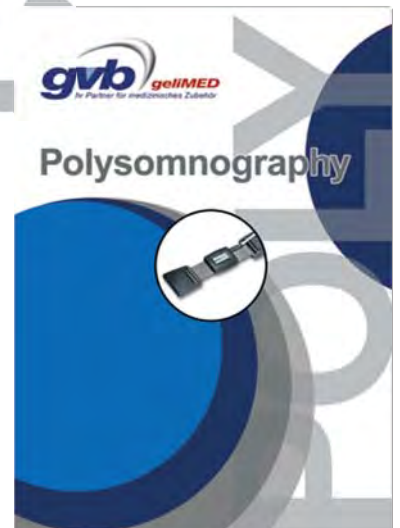
Item details	Comments	Item number	PU
Size L	Adults	GE-XLKK-00KK00-K	1 pc.
Size M	Young adults, women	GE-LKK-00KK00-K	1 pc.
Size S	Child	GE-MKK-00KK00-K	1 pc.
Size XS	Child	GE-SKK-00KK00-K	1 pc.

Eye patch

Item details	Comments	Item number	PU
Eye patch		PZN02689632	1 pc..



Worldwide



The entire product range online at:
www.gvb-gelimed.com

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