

# EEG

## THIS SECTION IS ABOUT THE ELECTRODES USED FOR EEG MONITORING AND EVOKED POTENTIALS RECORDING

Pre-assembled EEG head caps with internal wires  
Pre-assembled EEG head caps with external wires  
Pre-assembled EEG head caps with thin wires  
Pre-assembled EEG head caps for premature babies  
Pre-assembled EEG head caps for MRI and TMS  
Interface cables for pre-assembled EEG head caps  
Emergency cable for EEG head caps  
Pre-assembled EEG head caps with 32/41 electrodes  
Pre-assembled EEG head caps for evoked potentials recording  
Respiration sensor  
Tubular elastic EEG head caps  
Bridge electrodes for tubular elastic EEG head caps  
Ear electrodes  
Connection cables for bridge electrodes  
Kit: 21 marked alligator clip cables  
Conductive electrode gel  
Blunt needles  
Neurology accessories

# INTRODUCTORY REMARKS

## PRE-ASSEMBLED EEG HEAD CAPS

These EEG head caps are made of stretch fabric. The electrodes are permanently positioned following the INTERNATIONAL 10-20 system.

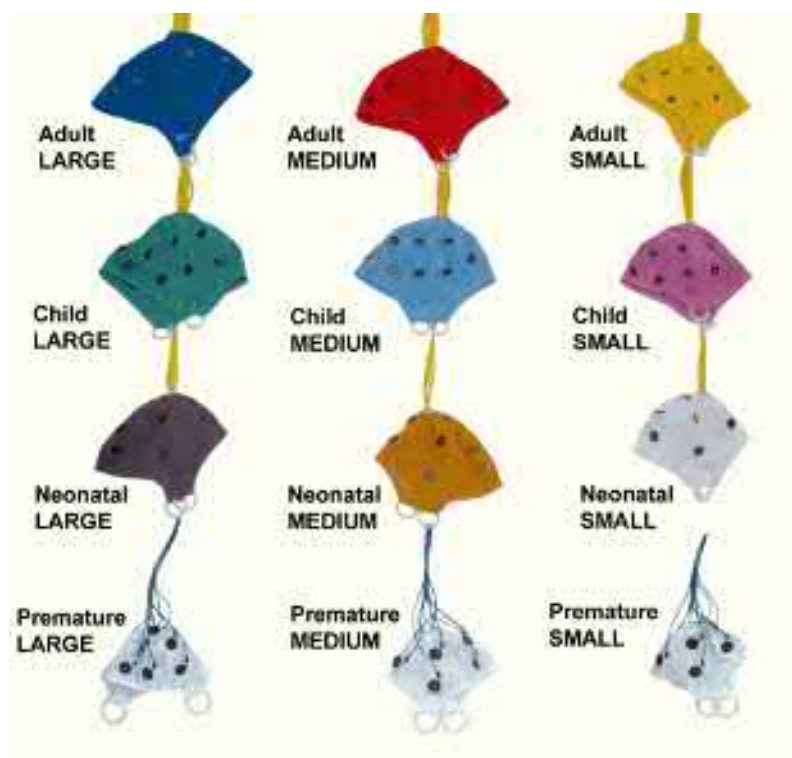
The electrodes are made of **Ag/AgCl**. When the head cap has been put on the patient, the electrodes must be filled with conductive gel. This gel has to be injected into every electrode's hole using a syringe with blunt needle.

The extra-flexible and mechanically strong TINSEL wires (standard length: 900mm) come out of the head cap. Their end connects them to a 25 pin male D-Sub connector, which makes disconnection quicker.

The interface cable (standard length: 400 mm) must be plugged into the head cap connector. On the other end of the interface cable there are 21 marked cables (**universal connection**) which are plugged into the EEG box. The final connector is a Ø 1.5 mm touchproof DIN42802. Both the EEG box and the 21 cables are marked following the INTERNATIONAL 10-20 system.

The EEG head caps are available in many different adult and child sizes. The head cap's size is clearly distinguishable by its colour.

The position of the electrodes Fp1 and Fp2 is marked on the head cap for easy identification of the frontal section.



The head caps come complete with a fastener which is made up of a soft chin strap and an adjustable Velcro strap.

Other types of fasteners (such as body harnesses and several types of chin straps) are sold separately (see pages 95-96).

The head caps with “S” wiring must be connected with the interface cable CUEFD1S, otherwise the electric connection won’t work.

The head caps with direct connection to the EEG box do not need any interface cable. In that case, the head cap’s wires are 1300 mm long and the plug has to be put directly into the EEG box of the desired manufacturer (for instance, the head cap CUET52M must be put into a MICROMED EEG box).

Head caps with customized layouts for evoked potentials recording or any other use can be manufactured upon request.

#### AVAILABLE MODELS:

The EEG head caps come complete with soft rubber electrodes which are available in two different thicknesses:

- 1) standard thickness
- 2) reduced thickness, which is particularly suitable for polysomnography (PSG).

The head cap’s wires may be arranged in two different ways:










- 1) the wires may be located internally: the head cap will be more compact; or
- 2) the wires may be located externally: the head cap will cling to the patient.

These four different models make it possible for the customer to choose the pre-assembled head cap which best suits their needs.



# PRE-ASSEMBLED EEG HEAD CAPS WITH STANDARD-THICKNESS ELECTRODES AND WIRES LOCATED INTERNALLY **REUSABLE**

**Packaging: box containing 1 piece.**

CODE	WIRES	SIZE	Number of electrodes	DESCRIPTION	COLOUR
<b>CUEF60S</b>	internal	58-62 cm	21, standard thickness	Extra large, adult	Blue 
<b>CUEF56S</b>	internal	54-58 cm	21, standard thickness	Large, adult	Red 
<b>CUEF52S</b>	internal	50-54 cm	21, standard thickness	Medium-small, adult	Yellow 
<b>CUEF48S</b>	internal	46-50 cm	21, standard thickness	Large, child	Green 
<b>CUEF44S</b>	internal	42-46 cm	21, standard thickness	Medium, child	L.Blue 
<b>CUEF41S</b>	internal	38-42 cm	21, standard thickness	Small, child	Pink 
<b>CUEF38S</b>	internal	34-38 cm	11, standard thickness	Large, neonatal	Brown 
<b>CUEF34S</b>	internal	32-34 cm	11, standard thickness	Medium, neonatal	Orange 
<b>CUEF32S</b>	internal	30-32 cm	11, standard thickness	Small, neonatal	White 












**CUSTOMIZED CONNECTION CABLES ARE AVAILABLE UPON REQUEST.**

YOU CAN ORDER EEG HEAD CAPS WITH DIRECT CONNECTION TO THE EEG BOX.  
JUST REPLACE THE PRODUCT CODE'S LAST LETTER (**S**) WITH THE LETTER STANDING FOR THE  
DESIRED CONNECTION. SEE THE CHART BELOW.

<b>A</b>	INTERNATIONAL		<b>N</b>	NEUROSOFT
<b>M</b>	MICROMED		<b>XX</b>	CUSTOM-MADE

# PRE-ASSEMBLED EEG HEAD CAPS WITH REDUCED-THICKNESS ELECTRODES AND WIRES LOCATED INTERNALLY **REUSABLE**

**Packaging: box containing 1 piece.**

CODE	WIRES	SIZE	Number of electrodes	DESCRIPTION	COLOUR
<b>CUER60S</b>	<i>internal</i>	<i>58-62 cm</i>	<i>21, reduced thickness</i>	<i>Extra large, adult</i>	<i>Blue</i> 
<b>CUER56S</b>	<i>internal</i>	<i>54-58 cm</i>	<i>21, reduced thickness</i>	<i>Large, adult</i>	<i>Red</i> 
<b>CUER52S</b>	<i>internal</i>	<i>50-54 cm</i>	<i>21, reduced thickness</i>	<i>Medium-small, adult</i>	<i>Yellow</i> 
<b>CUER48S</b>	<i>internal</i>	<i>46-50 cm</i>	<i>21, reduced thickness</i>	<i>Large, child</i>	<i>Green</i> 
<b>CUER44S</b>	<i>internal</i>	<i>42-46 cm</i>	<i>21, reduced thickness</i>	<i>Medium, child</i>	<i>L. Blue</i> 
<b>CUER41S</b>	<i>internal</i>	<i>38-42 cm</i>	<i>21, reduced thickness</i>	<i>Small, child</i>	<i>Pink</i> 
<b>CUER38S</b>	<i>internal</i>	<i>34-38 cm</i>	<i>11, reduced thickness</i>	<i>Large, neonatal</i>	<i>Brown</i> 
<b>CUER34S</b>	<i>internal</i>	<i>32-34 cm</i>	<i>11, reduced thickness</i>	<i>Medium, neonatal</i>	<i>Orange</i> 
<b>CUER32S</b>	<i>internal</i>	<i>30-32 cm</i>	<i>11, reduced thickness</i>	<i>Small, neonatal</i>	<i>White</i> 












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<b>M</b>	MICROMED		<b>XX</b>	CUSTOM-MADE

# PRE-ASSEMBLED EEG HEAD CAPS WITH STANDARD-THICKNESS ELECTRODES AND WIRES LOCATED EXTERNALLY **REUSABLE**

**Packaging: box containing 1 piece.**

CODE	WIRES	SIZE	Number of electrodes	DESCRIPTION	COLOUR
<b>CUEE60S</b>	external	58-62 cm	21, standard thickness	Extra large, adult	Blue 
<b>CUEE56S</b>	external	54-58 cm	21, standard thickness	Large, adult	Red 
<b>CUEE52S</b>	external	50-54 cm	21, standard thickness	Medium-small, adult	Yellow 
<b>CUEE48S</b>	external	46-50 cm	21, standard thickness	Large, child	Green 
<b>CUEE44S</b>	external	42-46 cm	21, standard thickness	Medium, child	L. Blue 
<b>CUEE41S</b>	external	38-42 cm	21, standard thickness	Small, child	Pink 
<b>CUEE38S</b>	external	34-38 cm	11, standard thickness	Large, neonatal	Brown 
<b>CUEE34S</b>	external	32-34 cm	11, standard thickness	Medium, neonatal	Orange 
<b>CUEE32S</b>	external	30-32 cm	11, standard thickness	Small, neonatal	White 



**CUSTOMIZED CONNECTION CABLES ARE AVAILABLE UPON REQUEST.**










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<b>A</b>	INTERNATIONAL		<b>N</b>	NEUROSOFT
<b>M</b>	MICROMED		<b>XX</b>	CUSTOM-MADE

# PRE-ASSEMBLED EEG HEAD CAPS WITH REDUCED-THICKNESS ELECTRODES AND WIRES LOCATED EXTERNALLY

**REUSABLE**

**Packaging: box containing 1 piece.**

CODE	WIRES	SIZE	Number of electrodes	DESCRIPTION	COLOUR
<b>CUET60S</b>	external	58-62 cm	21, reduced thickness	Extra large, adult	Blue 
<b>CUET56S</b>	external	54-58 cm	21, reduced thickness	Large, adult	Red 
<b>CUET52S</b>	external	50-54 cm	21, reduced thickness	Medium-small, adult	Yellow 
<b>CUET48S</b>	external	46-50 cm	21, reduced thickness	Large, child	Green 
<b>CUET44S</b>	external	42-46 cm	21, reduced thickness	Medium, child	L.Blue 
<b>CUET41S</b>	external	38-42 cm	21, reduced thickness	Small, child	Pink 
<b>CUET38S</b>	external	34-38 cm	11, reduced thickness	Large, neonatal	Brown 
<b>CUET34S</b>	external	32-34 cm	11, reduced thickness	Medium, neonatal	Orange 
<b>CUET32S</b>	external	30-32 cm	11, reduced thickness	Small, neonatal	White 












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<b>M</b>	MICROMED		<b>XX</b>	CUSTOM-MADE

# PRE-ASSEMBLED EEG HEAD CAPS WITH REDUCED-THICKNESS ELECTRODES AND EXTERNAL, *THIN*, LIGHT BLUE WIRES **REUSABLE**

**Packaging: box containing 1 piece.**

CODE	WIRES	SIZE	Number of electrodes	DESCRIPTION	COLOUR
<b>CUEL60S</b>	external	58-62 cm	21, reduced thickness	Extra large, adult	Blue 
<b>CUEL56S</b>	external	54-58 cm	21, reduced thickness	Large, adult	Red 
<b>CUEL52S</b>	external	50-54 cm	21, reduced thickness	Medium-small, adult	Yellow 
<b>CUEL48S</b>	external	46-50 cm	21, reduced thickness	Large, child	Green 
<b>CUEL44S</b>	external	42-46 cm	21, reduced thickness	Medium, child	LBlue 
<b>CUEL41S</b>	external	38-42 cm	21, reduced thickness	Small, child	Pink 
<b>CUEL38S</b>	external	34-38 cm	11, reduced thickness	Large, neonatal	Brown 
<b>CUEL34S</b>	external	32-34 cm	11, reduced thickness	Medium, neonatal	Orange 
<b>CUEL32S</b>	external	30-32 cm	11, reduced thickness	Small, neonatal	White 



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<b>M</b>	MICROMED		<b>XX</b>	CUSTOM-MADE



# PRE-ASSEMBLED EEG HEAD CAPS FOR PREMATURE BABIES WITH REDUCED-THICKNESS ELECTRODES AND EXTERNAL, *THIN*, LIGHT BLUE WIRES **REUSABLE**

**Packaging: box containing 1 piece.**

CODE	WIRES	SIZE	Number of electrodes	DESCRIPTION	COLOUR	
<b>CUEL30S</b>	<i>external</i>	<i>29-31 cm</i>	<i>11, reduced thickness</i>	<i>Large, premature</i>	<i>White</i>	
<b>CUEL28S</b>	<i>external</i>	<i>27-29 cm</i>	<i>11, reduced thickness</i>	<i>Medium, premature</i>	<i>White</i>	
<b>CUEL26S</b>	<i>external</i>	<i>25-27 cm</i>	<i>11, reduced thickness</i>	<i>Small, premature</i>	<i>White</i>	



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
<b>A</b>	INTERNATIONAL		<b>N</b>	NEUROSOFT
<b>M</b>	MICROMED		<b>XX</b>	CUSTOM-MADE

# PRE-ASSEMBLED EEG HEAD CAPS FOR MRI AND TMS

## REUSABLE

This EEG head cap features electrodes with a peculiar shape and 4-metre-long non-magnetic wires. Suitable for recording in environments with high magnetic flux densities.

**Packaging: box containing 1 piece.**

CODE	WIRES	SIZE	Number of electrodes	DESCRIPTION	COLOUR	
<b>CURM60S</b>	external	58-62 cm	21, reduced thickness	Extra large, adult	Blue	
<b>CURM56S</b>	external	54-58 cm	21, reduced thickness	Large, adult	Red	
<b>CURM52S</b>	external	50-54 cm	21, reduced thickness	Medium-small, adult	Yellow	
<b>CURM48S</b>	external	46-50 cm	21, reduced thickness	Large, child	Green	
<b>CURM44S</b>	external	42-46 cm	21, reduced thickness	Medium, child	L.Blue	
<b>CURM41S</b>	external	38-42 cm	21, reduced thickness	Small, child	Pink	
<b>CURM38S</b>	external	34-38 cm	11, reduced thickness	Large, neonatal	Brown	
<b>CURM34S</b>	external	32-34 cm	11, reduced thickness	Medium, neonatal	Orange	
<b>CURM32S</b>	external	30-32 cm	11, reduced thickness	Small, neonatal	White	



**CUSTOMIZED CONNECTION CABLES ARE AVAILABLE UPON REQUEST.**

# INTERFACE CABLE FOR PRE-ASSEMBLED EEG HEAD CAPS

## REUSABLE

This INTERFACE CABLE (standard length 400 mm) plugs the EEG head cap into the EEG box.

At the end of the interface cable there are 21 marked cables (**universal connection**) which are plugged into the EEG box. The final connector is a touchproof Ø 1.5 mm DIN42802. The cables are marked following the INTERNATIONAL 10-20 system.

**Packaging: box containing 1 piece.**

CODE	NUMBER OF ELECTRODES	HEAD CAP END	EEG BOX END
<i><b>CUEFD1RS</b></i>	11	SEI (S) sub-D25 female	touchproof DIN42802
<i><b>CUEFD1S</b></i>	21	SEI (S) sub-D25 female	touchproof DIN42802
<i><b>CUEFD1A</b></i>	21	INTERNATIONAL (A)	touchproof DIN42802
<i><b>CUEFMCS</b></i>	21	SEI (S) sub-D25 female	MICROMED sub-D25 male
<i><b>CUEFMZS</b></i>	21	SEI (S) sub-D25 female	MDR50
<i><b>CUEFLIS</b></i>	21	SEI (S) sub-D25 female	MDR36



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