

## CUP ELECTRODE MRI CONDITIONAL







		Electrode	AgAgCl
		Material in contact with the skin	AgAgCl
Description	Materials	Lead wire	Cu/Sn with PVC jacket
		Connector	CuZn with PE jacket
The cup electrode set is suitable for MRI tests ensuring safety conditions.		Packaging	РР
For ICU the system has the		Lead wire	Cu/Sn with PVC jacket
advantage to avoid to remove the electrodes from patients' skin thanks		Connector	Touch Proof 1,5 mm DIN 42802
to the easy disconnection of multipolar connector. These electrodes must be used with their dedicated connection cable.	Safety	Biocompatibility (UNI EN ISO 10993)	Yes
		Latex	No
		Phthalates	No
		Generic code	DCCCCPE-XX
<b>UMDNS</b> 17554	Specifications	Electrode diameter	10 mm
		Electrodes number	From 21 to 27
		Recording Area	78 mm <sup>2</sup>
		Cable length	100 cm
Env	Environment	RoHS II	$\checkmark$
	Livironment	REACH	$\checkmark$



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## **MRI Safety information**



Indications for Use (IFU)	The Ives MR Conditional Cup Electrodes are intended for use in the general recording and monitoring of the electroencephalography (EEG), evoked potential (EP) as well as ground and reference related to the EEG and EP recording. The Cup Electrodes are intended to be left in place during MR imaging at 1.5T and 3T as well as during CT scanning. The extension cable must be disconnected from the Ives MR Conditional Cup Electrodes before scanning and MUST remain disconnected throughout the entire MR scan. EEG or EP should not be recorded throughout the entire the CT and MR imaging.
MRI staff	<ul> <li>The Conductive Plastic Electrodes have been designed for MR compatibility based on years of MR and EEG electrode experience at more than 200 institutions ever since 1993 (lves et al, 1993). The Conductive Plastic Electrodes are constructed of non-magnetic material including some noble metals that are well established as being compatible in the MR environment (copper, silver, gold).</li> <li>Non-clinical testing has demonstrated that the lves MR Conditional Cup Electrodes is MR Conditional and can safely remain on the patient during an MR scan under the following conditions: <ul> <li>Static magnetic fields strength of 1.5-T and 3.0-T</li> <li>Maximum spatial gradient magnetic fields of 2,000 gauss/cm (20T/m) or less</li> <li>Transmit body or head coil, quadrature driven</li> <li>Maximum MR System reported whole-body averaged specific absorption rate (SAR) of 2 W/kg and whole-head averaged SAR of 3.2 W/kg</li> <li>Under the scan conditions defined above, the lves MR Conditional Cup Electrodes is expected to produce a maximum temperature rise of less than 5°C after 15 minutes of continuous scanning.</li> <li>The extension cable must be disconnected from the lves MR Conditional Cup Electrodes before scanning and must remain disconnected throughout the entire MR scan.</li> </ul> In non-clinical testing, the image artifact caused by the device extends approximately 3 mm from the lves MR Conditional Cup Electrodes when imaged with a gradient echo pulse sequence and a 1.5-T and 3.0-T MRI system. </li> </ul>
MR Condition Statemer	nt
Allowable imaging zone Allowed patient position Static field strength RF Coil Type RF Coil Mode MRI operating mode Head Average SAR	Head/neck Head first supine 3T OR 1.5T Body or Head Coil Tx With Head Coil Rx CP mode only Normal ≤3.2W/Kg

! Body Imaging: safety has not been verified and may cause injury.

≤2.0µT

**B1rms**