



SimplIEEG Dry Polymeric Foam Electrode

Product Details

The SimplIEEG electrodes are designed with a foam core coated with the polymeric *FlexElec* technology. This results in electrodes that are soft, dry, and reusable, suitable for both short-term and long-term stimulation and recording applications. The foam core combined with gel-free application provides comfort, making these electrodes well-suited for extended use during measurements.

Key Benefits

- > Dry, no gel required
- > Reusable & moisture resistant
- > Flexible, body conforming
- > Long-term measurements

Applications

- > EEG, ECG & EMG
- > Sleep studies
- > Sporting

Specifications

Materials	Polyurethane foam	1 kHz	1.00 MΩ
Core		Impedance stabilization time	5 min
Coating	Polymeric <i>FlexElec</i>		
Dimensions			
Electrode diameter	9.5 mm	1 kHz	1.00 MΩ
Electrode height	2.5 mm	Impedance stabilization time	5 min
Electrode-skin contact area	0.71 mm ²		
Weight	50 mg		
Connection	Available form factors for connection:	Reusability	
	<ul style="list-style-type: none"> > Wired only > Wired with adhesive film back > Stud with silicone bud back 	Typical number of uses	20
		Typical use time	7 days
		Shelf life	6 months
Electrical data	Skin-contact impedance* - typical	Safety	
	100 Hz	Cytotoxicity test (ISO 10993-5)	No cytotoxic effects (in-house); external testing underway
	3.75 MΩ	Skin irritation	No redness or irritation; minimal indentation, resolved within 30 min
			 

*Skin contact impedance values measured on human subjects using the reference electrode as both the reference and counter electrodes. Impedance values will vary from subject to subject based on the relative fit at each electrode site.

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