

TECHNICAL DATA SHEET

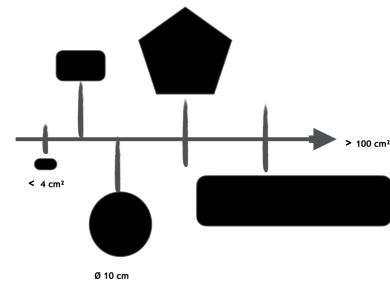
NTT SOLID ELECTRODES V 2.0 - WITH NON CONDUCTIVE FABRIC

NTT silicone electrodes V 2.0 (With or without integrated cable) are distinguished by their long life, high performance and simple application. Additional protection for integrated Cable in V 2.0 makes stronger connectivity and provides electric current leak proof ability.

The product portfolio covers numerous solutions such as medicine, sports and leisure activities, both for the measurement of electrocardiography (ECG), EMG, training monitoring and electro-muscular stimulation (EMS).

The simple transfer technology allows an optimum and permanent bond between the NTT electrode and the textile. Various shapes, varieties (with or without integrated cable) and personalised product designs are available through out the range. Tailored to the human skin impedance, the Biocompatible System enables the transmission of an optimal electrical signal.

SensElast Connect
Examples of available sizes & forms



MATERIAL INFORMATION

Nr.	Material Type	Description	Color
1.	Fabrics	Non conductive knitted fabric	Black
2.	Basis	Conductive silicone rubber	Black
3.	Adhesive tape (If applicable)	PU Thermoadhesive foil	Transparent
4.	Connection cable (If applicable)	Insulated Cable	
5.	Upper and lower link connectors (If applicable)	Silver conductive knitted fabric fused with Theremoadhesive foil	Silver

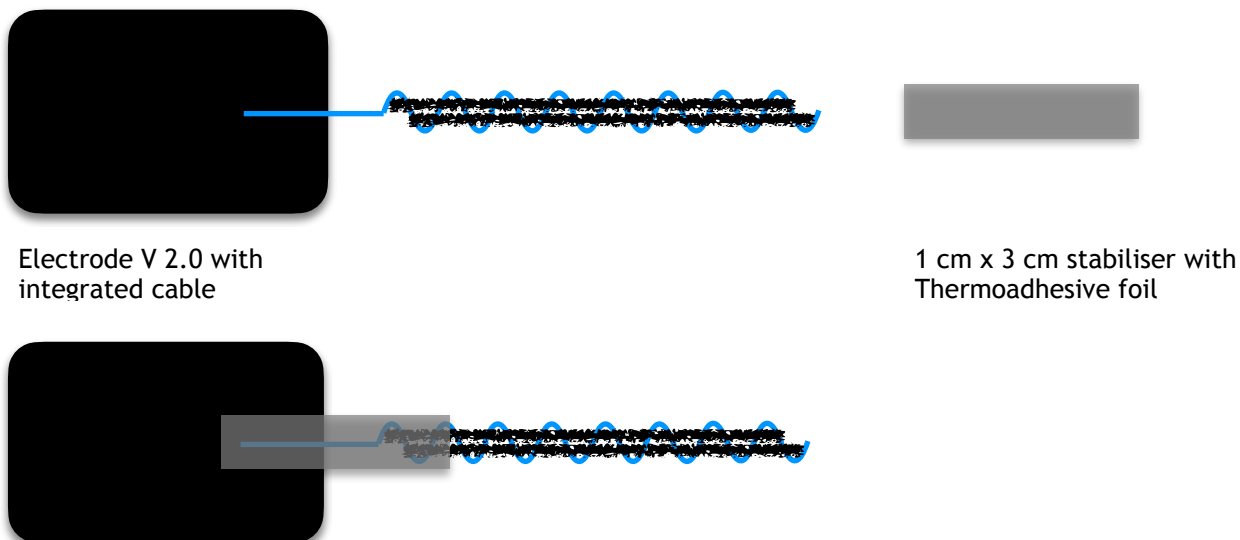
ELECTRODE TECHNICAL INFORMATION

Product performance range (resistance Ω) Note : surface resistance - 2 point prob method	100 Ω/cm^2 - 0,5 $\text{k}\Omega/\text{cm}^2$
Thickness of electrode	0,9 mm - 1,5 mm
Weight	0,09 $\text{g}/\text{cm}^2 \pm 3 \%$
Elongation / Elasticity	Max. 2 %
Appearance	Matte - Standard available
	Gloss - Contact for further details
Application parameters of heat press (If applicable) Note : Given parameters are based on the Thermoadhesive foil. Parameters may have to be adjusted based on the machine type, base material.	Temperature range: 140 - 145 °C Duration range: 20 - 25 second Pressure range: 4,5 - 6 bar
Abrasion Resistance	10,000 cycles

COMPLIANCE AND CERTIFICATION

Wash Test	: 50+ washes (Complete Electrode)
Skin sensitisation	: Does not cause skin irritation. Method OECD 406 (tested with conductive silicone)
Bio compatibility	: Cytotoxicity according to DIN EN ISO 10993-5 (tested with conductive silicone)

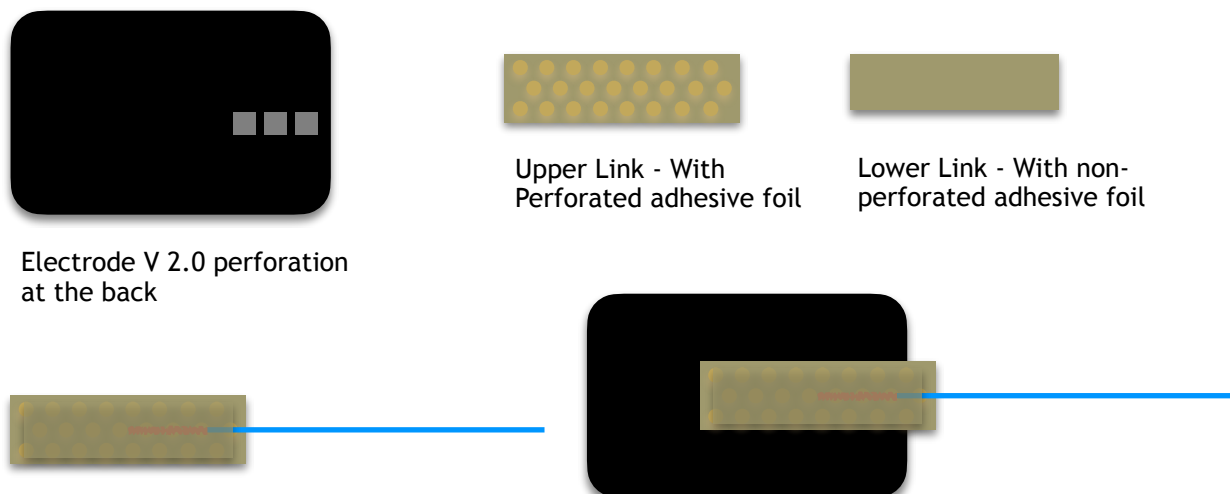
ASSEMBLING GUIDELINE FOR ELECTRODES WITH CABLE



- Remove the paper backing under the electrode and also the 1 cm x 3 cm stabiliser
- Place the stabiliser mesh side towards the Electrode back side, covering the cable (Refer the image)
- Bond the electrode along with the stabiliser to the product as necessary

Important : The integrated stabiliser enhances structural integrity, ensuring prolonged service life and consistent performance under high-stress operating conditions.

ASSEMBLING GUIDELINE FOR ELECTRODES WITHOUT CABLE



- Remove the paper backing under the electrode and also the upper and lower links
- Cable is placed between Lower link (non adhesive side) and Upper Link (adhesive side)
- Upper link (Non adhesive side) to be aligned with the Electrode perforation at the back

CONTACT INFORMATION

New Textile Technologies GmbH
Stollenau 10, D-72336 Balingen
info@ntt-int.com
+49 (0) 74 33-99 59-0

<http://www.ntt-int.com>