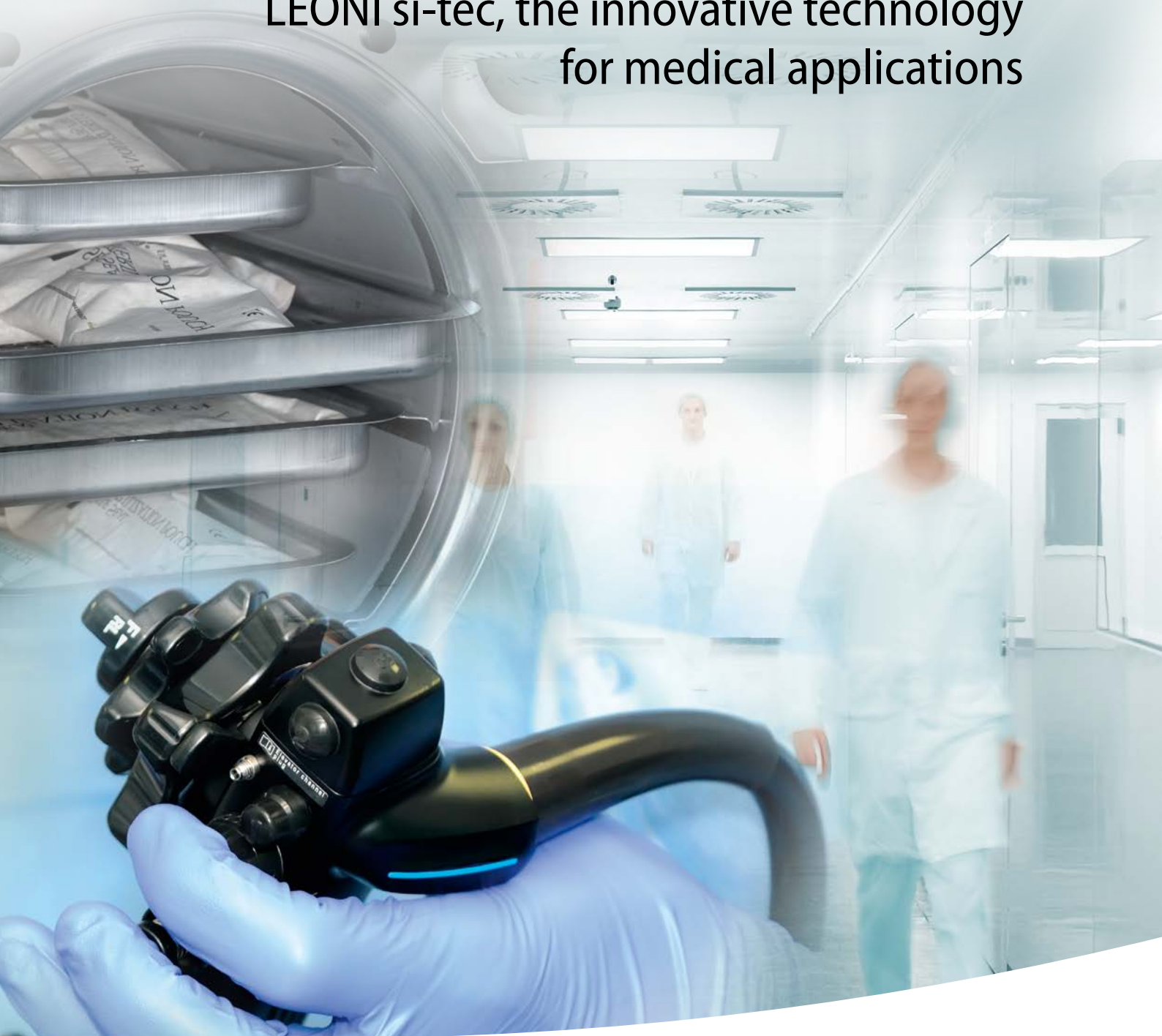


# **Silicone cables without stick-slip effect** LEONI si-tec, the innovative technology for medical applications



**The Quality Connection**

**LEONI**

## LEONI si-tec cable solutions set new standards in medical technology

The LEONI si-tec (silicone technology) products are made in a patent-pending extrusion process with an incomparable feel.

In the field of medical technology preference is given to the use of silicone cables, as they boast relevant features such as high flexibility, excellent resistance to mechanical loads and excellent resistance to both high and low temperatures. The disadvantage of silicone products, however, is their typical surface property, which is intensified further by sterilisation in autoclaves.

LEONI reduces adhesion (e.g., to the patient's skin or operating table) significantly. **This makes the handling of medical devices considerably preciser and safer** (no stick-slip effect).

### Technology

Processing liquid silicone rubber (LSR) requires special production processes.

LEONI si-tec products are produced from an initially non-cross-linked intermediate product. This is then treated with a patent-pending surface treatment. Only after the subsequent cross-linking is a ready-to-use material created, which is suitable as both an insulating and a cladding material. The cables

produced in this way retain the properties and features of silicone (e.g., elasticity, steam sterilisation at up to 143°C).

Special labelling possibilities:

Our cables can be furnished with durable inscriptions, which are still preserved after 500 cycles in the autoclave. In addition, we can also include coloured, longitudinal stripes.

### Resistances

- Cleaning agents
- Disinfectants
- Acids/bases
- Chemicals
- Oils
- Ozone
- UV radiation

### Sterilisation possibilities

- Steam sterilisation (autoclave)
- STERRAD NX®
- Gas sterilisation (ethylene oxide)
- Radiosterilisation



#### Standards

- Biocompatible in acc. with: USP class VI
- Biocompatible in acc. with: DIN EN ISO 10993-5
- FDA approved
- UL approved

## Benefits

- No stick-slip effect
- Unique feel
- Excellent tear propagation strength
- Durable inscriptions (even after 500 sterilisation cycles)
- Antimicrobial finish possible
- Excellent resistance to mechanical loads
- Optimal reversed bending strength
- Halogen free
- REACH (SVHC) compliant
- Latex free
- BSE/TSE compliant (not of animal origin)
- No phthalates, bisphenol A
- No pretreatment necessary before further use (dusting with talcum powder)

## Product portfolio

- Hybrid cables
- Measuring and control cables
- Data and coaxial cables
- Miniature cables
- Insulated metal tubes
- Assembled cables and systems



## Applications

- **DIAGNOSIS**
  - Ultrasound / sonography
  - Molecular imaging / nuclear medicine
  - Endoscopy
  - Catheter technology
  - Laboratory technology
- **TREATMENT**
  - Radiotherapy
  - Cryotherapy
  - Laser medicine
  - High frequency surgery
  - Robot-assisted and computer-assisted surgery
  - Laparoscopy
  - Intracorporeal systems
  - Extracorporeal support systems
  - Dental technology
- **PATIENT MONITORING**
  - ECG, EEG & MEG



Smallest Ø 1.5 mm  
Largest Ø 15.0 mm

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