Autoclavable HF Electrosurgical Cable electrosurgical silicone cable

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Autoclavable Silicone Electrosurgical High-Frequency Medical Cable

IEC 60601-2-2 / ISO 10993-1 platinum-cured +134 °C steam-autoclavable electrosurgical HF



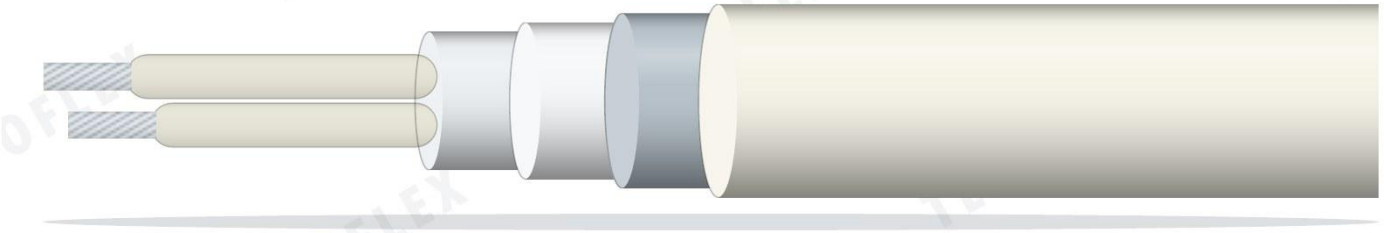
Up to 5.0 kVp HF | **+134 °C Steam Autoclave** | **ISO 10993 / USP Class VI**

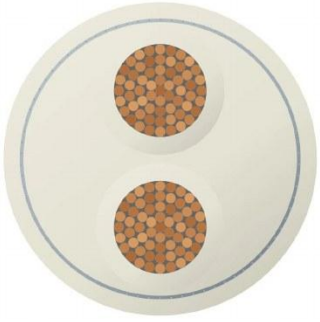
Application

Biocompatible, reusable high-frequency electrosurgical silicone cable (Autoclavable HF Electrosurgical Cable) certified to ISO 10993-1 / USP Class VI and IEC 60601-2-2, featuring ultra-fine Class 6 / Litz tinned copper conductors and platinum-cured non-stick

Typical uses: Monopolar Electrosurgical Pencils & Active Electrodes, Bipolar Microsurgical, Neurosurgical & Ophthalmic Forceps, Laparoscopic & Robotic Bipolar Vessel-Sealing Instruments, Urological Resectoscopes & Gynecological Hysteroscopes, Arthroscopic, ENT & Spine RF Plasma Ablation Handpieces

Construction





Cross-section, not to scale

1. Ultra-fine Class 6 or Litz tinned copper (Ø 0.05 mm strands)
2. High-dielectric-strength HF silicone or fluoropolymer (FEP) core wall
3. Metallic screen
4. Platinum-cured ISO 10993 / USP Class VI medical silicone jacket

Technical data

Typical values

Max HF rated peak voltage	2.5 kVp (bipolar standard) · 4.5 kVp to 5.0 kVp (monopolar / HV spray coag)
Operating RF frequency	300 kHz to 4.0 MHz (IEC 60601-2-2 electrosurgical generators)
Continuous temperature range	−50 °C to +180 °C (short-term +200 °C)
Individual strand diameter	0.05 mm (44 AWG) ultra-flexible tinned copper
Biocompatibility	ISO 10993-1 / ISO 10993-5 (non-cytotoxic) · USP Class VI
Halogen & plasticizer free	100 % platinum-cured silicone (zero phthalates, latex or peroxide bloom)
Standard packing	ISO 10993-5 CoC, USP Class VI compound cert & IEC 60601-2-2 dielectric report
Routine AC test voltage	6.0 kV AC (monopolar) · 4.0 kV AC core-to-core & core-to-water (bipolar)
Core capacitance (bipolar)	≤ 48 pF/m core-to-core (minimizes RF leakage current)
Steam autoclave sterilization	+134 °C to +138 °C at 2.1–2.3 bar for 5–18 min (300–500+ cycles per ISO 17665-1)
Min. bend radius	4 × OD (drape-limp zero-memory handling)
Sterilization & cleaning	Steam autoclave, EtO, H2O2 gas plasma (STERRAD) & pH 10.5 washer-disinfectors
Standards	IEC 60601-2-2 (Clause 201.8.8.3.102–104 HF surgical accessories)

Sizes

12 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Order designation	Cores × Cross-Section	Stranding Ø 0.05 mm	Max HF U_p kVp	Test U kV AC	Nom. OD mm	Weight kg/km
Monopolar Double-Insulated & Bipolar Figure-8 / Round Electrosurgical Cables 7 sizes						
☐ HF-MED-S-1X0.75-5KV	1 × 0.75 mm² Monopolar	384 × 0.05 mm SnCu	5.0	6.0	3.6	19.5
☐ HF-MED-S-1X1.00-5KV	1 × 1.00 mm² Monopolar	512 × 0.05 mm SnCu	5.0	6.0	3.9	23.8
☐ HF-MED-S-1X1.50-5KV	1 × 1.50 mm² Monopolar	768 × 0.05 mm SnCu	5.0	6.0	4.3	30.5
☐ HF-MED-S-2X0.50-TWIN	2 × 0.50 mm² Fig-8 Twin	256 × 0.05 mm SnCu	2.5	4.0	2.4 × 4.8	21.0
☐ HF-MED-S-2X0.50-RND	2 × 0.50 mm² Bipolar Rnd	256 × 0.05 mm SnCu	3.5	4.5	4.6	28.5
☐ HF-MED-S-2X0.75-RND	2 × 0.75 mm² Bipolar Rnd	384 × 0.05 mm SnCu	4.5	5.0	5.1	36.2
☐ HF-MED-S-2X1.00-RND	2 × 1.00 mm² Bipolar HV	512 × 0.05 mm SnCu	5.0	6.0	5.6	44.0
3-Core, 4-Core & 5-Core Hand-Switched Monopolar / Bipolar / Vessel-Sealer Cables 5 sizes						
☐ HF-MED-S-3X0.50-SW	3 × 0.50 mm² Hand-Switch	256 × 0.05 mm SnCu	4.5	5.0	4.9	34.5
☐ HF-MED-S-3X0.75-SW	1×0.75 + 2×0.25 mm² Pencil	384 / 128 × 0.05 mm	5.0	6.0	4.8	32.0
☐ HF-MED-S-4X0.34-BIP	4 × 0.34 mm² Bipolar Sw.	175 × 0.05 mm SnCu	3.5	4.5	4.8	31.8
☐ HF-MED-S-2X0.75+2X0.25	2×0.75 + 2×0.25 mm² Sealer	384 / 128 × 0.05 mm	4.5	5.0	5.4	41.5
☐ HF-MED-S-2X0.75+4X0.14	2×0.75 + 4×0.14 mm² Smart	384 / 72 × 0.05 mm	4.5	5.0	5.7	45.2

– Custom overmould-ready cut leads with silicone strain reliefs, Valleylab/Erbe/Bowa 3-pin or 2-pin plugs, and RFID instrument ID pairs available.

Standards and approvals

- ✓ IEC 60601-2-2 High-Frequency Surgical Accessory Compliant
- ✓ ISO 10993-1 / -5 & USP Class VI Biocompatible Silicone

Certifications

Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone
+86 185 9591 3361

Email
info@tebaoflex.com

Web
tebaoflex.com/cables/hf-sabmed-s-autoclavable-silicone-electrosurgical-high-frequency-medical-cable

Typical values for this cable type, based on IEC 60601-2-2 / ISO 10993-1 / USP Class VI / DIN EN ISO 17665-1. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.