Biocompatible Silicone Medical Cable biocompatible medical connecting cable

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Biocompatible Silicone Medical Device Diagnostic Connecting Cable

ISO 10993 / USP Class VI +134 °C autoclavable multi-core & screened medical silicone cable



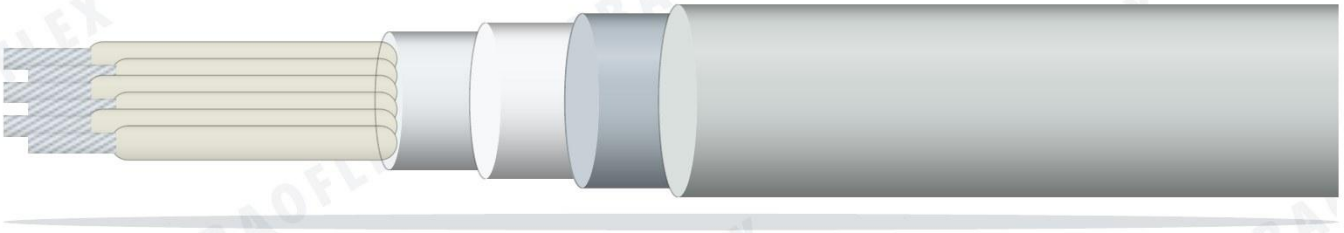
ISO 10993 / USP Class VI | **2 to 24+ Cores (Screened/Unscreened)** | **+134 °C Steam Autoclave**

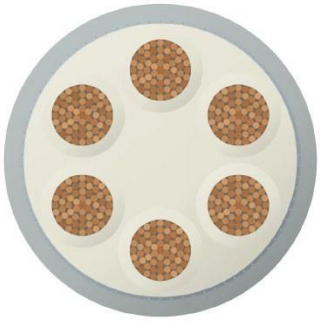
Application

Biocompatible, platinum-cured multi-core and EMC-screened medical device connecting cable (Biocompatible Silicone Medical Cable) certified to ISO 10993-1/-5/-10 and USP Class VI, engineered with 2 to 24+ cores (0.14 mm^2 to 2.5 mm^2), FEP/ETFE or silicone core.

Typical uses: Patient Monitoring Leads (ECG, SpO2, IBP, Temperature & CO2), Orthopaedic, Neuro & ENT Brushless Surgical Handpiece Motors, Reusable Endoscope, Laparoscope & Dental Camera Umbilicals, Diagnostic Ultrasound, Fetal Monitor & Defibrillator Cables, Clinical Laboratory Analyzers & Cleanroom Bioprocess Skids

Construction





Cross-section, not to scale

1. Extra-fine Class 6 tinned or silver-plated copper (Ø 0.05 mm)
2. Thin-wall FEP / ETFE fluoropolymer or platinum silicone cores
3. Metallic screen
4. Platinum-cured ISO 10993 / USP Class VI medical silicone jacket

Technical data

Typical values

Nominal voltage (U0/U)	300 / 300 V (≤ 0.25 mm²) · 300 / 500 V (≥ 0.34 mm²)	Routine AC test voltage	1,500 V AC to 2,500 V AC core-to-core & core-to-screen
Insulation resistance	≥ 1,000 MΩ·km (silicone cores) · ≥ 5,000 MΩ·km (FEP cores)	Operating temperature	−50 °C to +180 °C (peaks to +200 °C)
Steam autoclave sterilization	+134 °C to +138 °C at 2.1 bar (ISO 17665-1 reusable instrument grade)	Core cross-sections	0.08, 0.14, 0.25, 0.34, 0.50, 0.75, 1.0, 1.5 & 2.5 mm² (Class 6)
Min. bend radius	4 × OD static · 7.5 × OD dynamic clinical flexing	Biocompatibility	ISO 10993-1, ISO 10993-5 (Cytotoxicity), ISO 10993-10 · USP Class VI
Disinfectant resistance	Isopropanol, ethanol, aldehyde-free & quaternary ammonium hospital wipes	Halogen & plasticizer free	100 % platinum-cured silicone · zero DEHP/phthalates, latex or halogens
Standards	IEC 60601-1 · ISO 10993-1/-5/-10 · USP Class VI · EU MDR 2017/745 material support		

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	EMC Screen & Core Wall	Rated U V AC	Nom. OD mm	Cu Index kg/km	Weight kg/km
Biocompatible Silicone Medical Cable Unscreened Multi-Core Medical Connecting Cables (ISO 10993 / USP Class VI) 5 sizes						
☐ MED-S-2X0.25	2 × 0.25 mm² (24 AWG)	Unscreened · SiR Cores	300	3.8	4.8	18.5
☐ MED-S-3X0.50	3 × 0.50 mm² (20 AWG)	Unscreened · SiR Cores	500	4.9	14.4	34.0
☐ MED-S-4X0.25	4 × 0.25 mm² (24 AWG)	Unscreened · SiR Cores	300	4.3	9.6	26.5
☐ MED-S-6X0.25	6 × 0.25 mm² (24 AWG)	Unscreened · FEP Cores	300	4.6	14.4	31.0
☐ MED-S-3X1.00	3 × 1.00 mm² (18 AWG)	Unscreened · SiR Cores	500	6.2	28.8	58.0
Biocompatible Silicone Medical Cable-C EMC-Screened & Hybrid Surgical Motor / Patient Diagnostic Cables 7 sizes						
☐ Silicone Medical-SC-4X0.14	4 × 0.14 mm² (26 AWG)	≥ 85% SnCu Braid · FEP	300	3.9	11.2	23.5
☐ Silicone Medical-SC-6X0.14	6 × 0.14 mm² (26 AWG)	≥ 85% SnCu Braid · FEP	300	4.4	14.5	29.8
☐ Silicone Medical-SC-8X0.14	8 × 0.14 mm² (26 AWG)	≥ 85% SnCu Braid · FEP	300	4.8	17.8	35.5
☐ Silicone Medical-SC-4X0.25	4 × 0.25 mm² (24 AWG)	≥ 85% SnCu Braid · FEP	300	4.4	16.0	31.2
☐ Silicone Medical-SC-12X0.14	12 × 0.14 mm² (26 AWG)	≥ 85% SnCu Braid · FEP	300	5.5	24.5	46.8
☐ Silicone Medical-SC-3X0.50+6X0.14	3×0.50 + 6×0.14 mm² Motor	≥ 85% SnCu Braid · FEP	300	5.8	31.0	54.0
☐ Silicone Medical-SC-3X0.75+8X0.14	3×0.75 + 8×0.14 mm² Handpiece	≥ 85% SnCu Braid · FEP	300	6.4	42.5	68.5

– Compatible with medical push-pull circular connectors and silicone liquid-injection-moulded (LIM) bend reliefs.

Standards and approvals

- ISO 10993-1 / -5 / -10 & USP Class VI Biocompatible
- IEC 60601-1 & ISO 17665-1 (+134 °C Autoclave) Ready

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/sabmed-s-biocompatible-silicone-medical-device-diagnostic-connecting-cable

Typical values for this cable type, based on ISO 10993-1 / -5 / -10 · USP Class VI · IEC 60601-1 · 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.