BizLink Where Possibilities Connect™

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elocab

Custom Cables & Systems

for Endoscopy & Surgical Robots

BENEFITS ›

- Biocompatible acc. to USP Class 6 or DIN ISO 10993
- Certified acc. to DIN EN ISO 13485
- Full system sterilisation possible
- Development and qualification of cables and cable systems

SERVICES ›

- **Engineering & Development ›**
  Custom design, qualification, and development of specific solutions for endoscopic cables.
- **Manufacturing & Assembly ›**
  Clean-room production, advanced moulding and potting, IPC soldering, and supply of ready-to-use assemblies.
- **Testing & Quality Assurance ›**
  Comprehensive measurements and validation.

APPLICATIONS ›

› Endoscopy Devices



› Robot Cabling & Arm Joints



› Surgeon Bridge Connections



› Instruments & Accessories



» **Supply of complete assemblies fulfilling all customer specific needs**

» **Hybrid solutions for each demand**

10. 2025 / en

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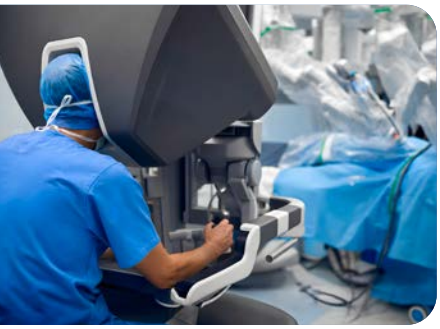
The Right Solution for Your Application



ENDOSCOPE IMAGING FOR HAND DEVICES & SURGICAL ROBOTS ›

- Superior bulk cable (hybrid or helix design, patented SiTec silicone jacket)
- Illumination bundle (cabled into hybrid design or separate component, sealed ferrules)
- Autoclavable, STERRAD NX®, sterilisable, Gas sterilisable (ETO), Radiation sterilisable
- Connectors (standard, custom)
- Video signal transmission (high speed copper pairs, coaxes, optical data fibers, optocoupler)
- Sealing, potting (silicone, hotmelt, epoxy), overmoulding (thermoplastic or silicone)

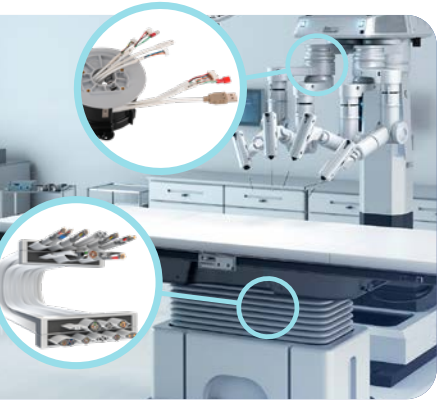
» BizLink is technology leader for high demand video signal transmission (4K, 3D) and has realised a broad variety of elocab solutions for medical endoscopes.



SURGEON BRIDGE CONNECTION ›

- Steel helix armor for superior mechanical resistance (protection against crush damage, very flexible supporting manual movements)
- Jacket materials acc. environmental conditions
- Components tailored to application (copper, fibers)
- Strain relief components

» BizLink offers ready to install solutions for manually moved and mechanically stressed elocab cables, e.g. placed on operating room floor.



ROBOT CABLING & ARM JOINTS ›

- Maximum flex-life (up to 150 million cycles, very tight bend radii)
- Extreme flat design for restricted installation space
- Light weight solution for extreme point to point accuracy
- No friction and virtually no abrasion due to high-performance fluoropolymer materials
- Design optimization for maximum rotational degrees of freedom or linear travel
- Available as a full “turn-key” assembly with connectors and mounts for easy integration into any application

» elocab High-Performance-Flex (HPF) cables are the ideal solution for repeated movements in robot joints or in patient beds.



INSTRUMENTS & ACCESSORIES ›

- Cable for mono- and bipolar electrosurgery
- Miniaturization striving smallest cables and coaxes (stapler, coagulation & cautery applications)
- Medical standards, e.g. cleanroom manufacturing

» BizLink is able to develop and deliver turn-key solutions for robot guided instruments and is trusted partner of world leading surgery equipment providers.

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