

# We connect your Endoscope Application

# Hand devices and surgical robots

elocab cables and systems for endoscopic applications are not only very thin but also highly flexible and designed to have extremely long service lives. Our endoscopic technology especially excels in its image transmission and hygienic properties >

You get interference-free, pin-sharp images in groundbreaking quality for any camera concept up to 4K resolution. Sealing at critical points and a durable sheath gives the product reliability and minimises the risk of infection.





# Endoscope imaging for hand devices and surgical robots >

- Superior bulk cable (hybrid or helix design, patented silicone jacket)
- Illumination bundle (cabled into hybrid design or separate component, sealed ferrule)
- Overmoulding (thermoplastic or silicone, autoclavable)
- Connector (standard, custom)
- Video signal transmission (high speed copper pairs, coaxes, optical data fibres, optocoupler)
- Sealing, potting (silicone, hotmelt, epoxy)
- Biocompatible acc. USP Class VI and ISO 10993



### 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, fibres)
- Strain relief of components
- Connector (standard, custom)

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





#### Robot cabling & arm joints >

- Maximum flex-life (up to 150 million cycles, very tight bend radii)
- · Incorporation of any individual conductor
- 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
- Clean room ready (rated Class 1)
- 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



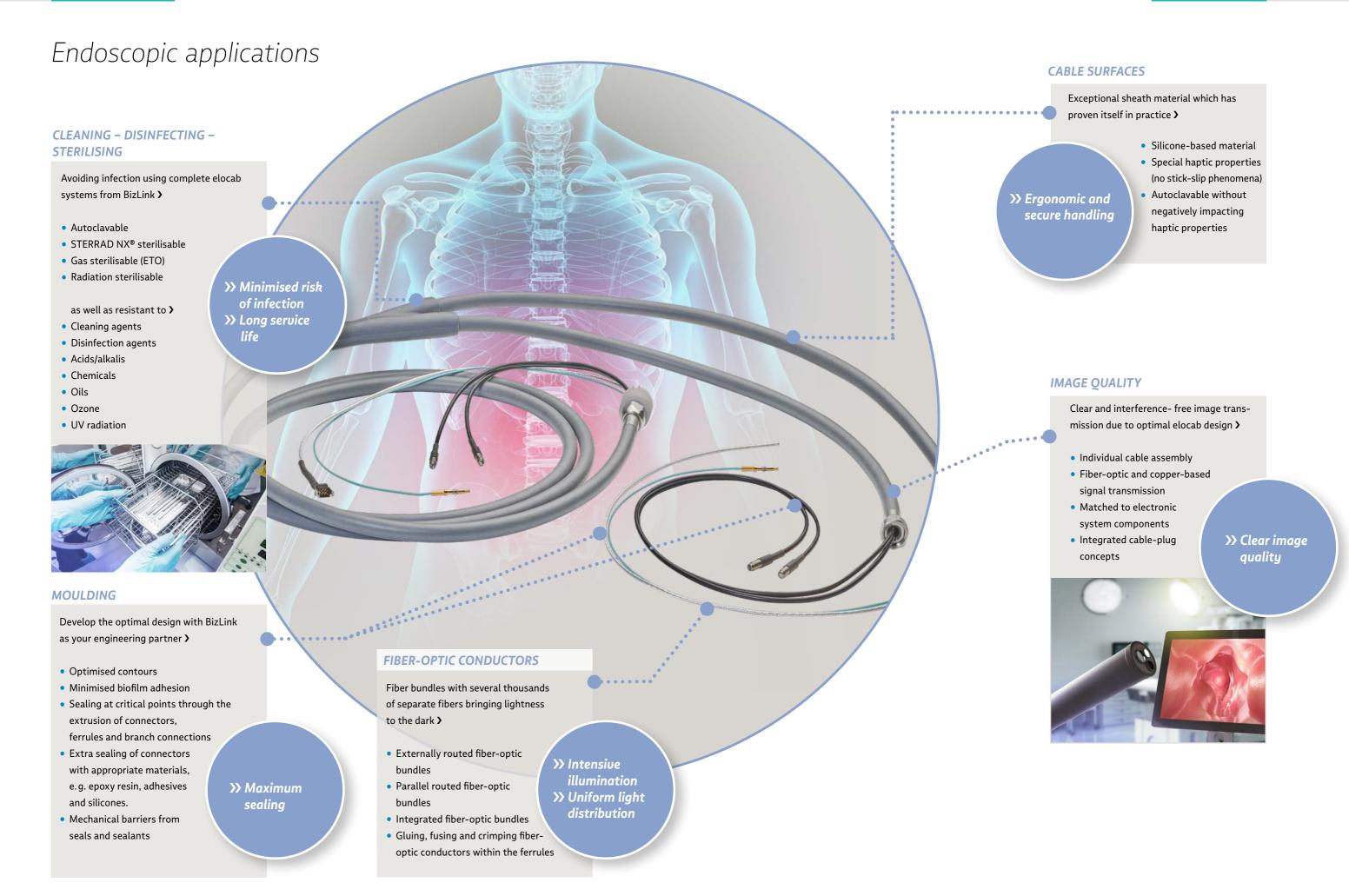
Instruments & Accessories >

- Cable for mono- & bipolar electrosurgery
- Si-tec jacket (patented technology, anti slip stick jacket, variety of colours for customer branding)
- Sterilizable systems (STERRAD®, STERIS, autoclave)
- Miniaturization striving smallest cables and coaxes (stapler, coagulation and cautery applications)
- Medical standards, e.g. cleanroom manufacturing
- Short development cycles

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

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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# Our solutions

# Tailored to your needs

#### Requirements >

Quality assurance in the provision of medical products is set down in laws, directives, standards, guidelines and recommendations. The prevention of potential risks to patients has top priority.

Our products are biocompatible according to USP Class 6 and DIN EN ISO 10993. BizLink's facility in Georgensmünd, Germany, has been certified according to DIN EN 13485 thereby ensuring document traceability and risk management. We are familiar with the increasingly stringent requirements being imposed by the authorities, and we are your development partner for sustainable and durable products.

BizLink equips your endoscopes with validated, tried and tested technology.

#### Services >

- Development and qualification of cables and cable systems for endoscopic applications
- Miniaturised cables and system solutions for minimally-invasive applications
- Endoscopic round and planar cables
- Integration of fiber-optic bundles in cable assemblies for light transmission
- Extrusion of fiber-optic bundles with fluorothermoplasts
- Assembly and manufacturing of cable systems,
   e.g. in clean rooms
- Adhesion and grinding of fiber-optic bundles
- Development of specific contacting solutions
- Moulding and curing techniques
- Silicone extrusion of plugs and branches
- Extrusion of ferrules with silicone or thermoplastics
- Soldering according to IPC 610
- Copper-based and fiber-optic transmission of video signals
- Technology for measuring and testing signal integrity in optical and electrical image transmission
- Supply of complete assemblies

### Advantages >

- · Engineering and design from a single source
- No stick-slip phenomena
- Unique haptic properties
- Durable surface characteristics
- Antimicrobial equipment possible
- Very good mechanical resistance
- Optimum flexing properties
- Halogen-free
- REACH (SVHC) compliant
- Latex free
- BSE/TSE compliant (non-animal origin)
- Phthalates, bisphenol A free
- No pre-treatment (talcuming) of outer sheath required for further operation
- Biocompatible according to USP Class 6 or DIN ISO 10993
- Full system sterilisation possible
- Certified according to DIN EN ISO 13485

# Healthcare

# The specialist for a demanding market

Are you looking for reliability, long-term flexibility, easy to use and the highest levels of patient safety for your medical systems and devices?

Then intelligent cabling is one of the main factors in making your products succeed.

BizLink offers its customers an integrated range of products and services that extends from system engineering and cable manufacture through to complex cable systems with integrated mechanical and electronic components.

As a system provider, we work to support development and rise to the challenge of meeting your specific requirements. BizLink has many years of experience in developing and manufacturing special cables, modules and intelligence systems to be your competent partner.



#### Healthcare

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■ BizLink Tailor-Made Products

