



Custom designed cables and assemblies FOR MEDICAL DEVICES

AXON' CABLE designs and manufactures custom designed cables and assemblies which meet the requirements of the medical market. AXON' engineers support their customers in their risk management in accordance with the European directives (directives 93/42/CEE and 2007/47/CE).

RESEARCH AND DESIGN

From the cable to the connectors, ranging from moulded or overmoulded parts and mechanical parts, AXON' engineers are involved in the design of medical equipment. Interconnect systems are designed with the help of the Autodesk Inventor software which is compatible with most of the engineering software via .step and .iges files.

All products are designed in accordance with the CEI60601-I standard.

STERILISATION AND SEALABILITY

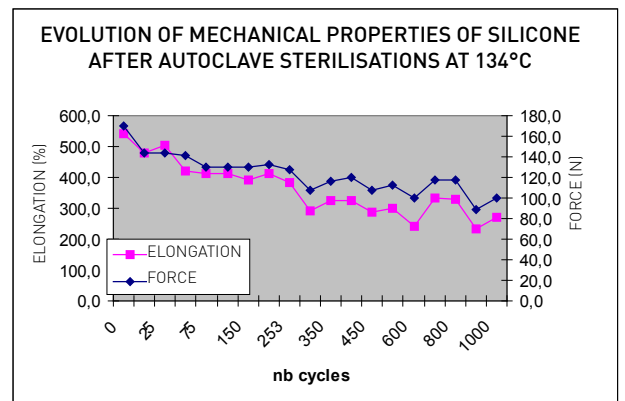
AXON' medical assemblies are insulated with PVC, PU, TPE and other plastics which are easy to clean and chosen according to the sterilisation method required from the customer :

- Disinfecting,
- Plasma sterilisation,
- Ethylenoxyde,
- Gamma sterilisation, etc.

AXON' assemblies insulated with silicone or thermoplastic elastomers are able to be autoclaved like most of surgical devices. AXON' is able to offer assemblies which are sealed accurately in the connecting area for a safer use and a guaranteed life time.



AUTOClave STERILISATION



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FLEXIBILITY AND AESTHETICS

For applications such as endoscopy, ambulatory equipment, patient monitoring and diagnostics, assemblies have to be flexible and withstand handling from the medical staff and patients.

AXON' offer biocompatible materials (ISO 10993, USPXXIII class VI) coloured with FDA approved pigments which are developed in accordance with the customers' requirements. Its expertise in moulded and overmoulded parts enables AXON' to offer cords which meet not only the technical but also the aesthetic requirements of the customers.

ELECTRICAL AND MECHANICAL RELIABILITY

AXON' also has a long expertise in the manufacture of coaxial cables, microwave cables and PTFE tubes. This allows the group to offer hybrid hydro-electrical assemblies able to transmit signals, power and fluids (liquid or gas).

Electromagnetic protection is an important stake for medical applications too. AXON' has two types of test equipment to evaluate the protection of the assembly :

a transfer impedance test bench to measure the shielding efficiency of the cable and a mode stirred chamber to measure the shielding efficiency of the assembly.

AXON' integrate the test method and equipment from the design stage in order to guarantee electrical performance of assemblies and special sensors.

NOSO-FREE®, ANTIBACTERIAL ASSEMBLIES



AXON' CABLE has developed a new range of anti-bacterial medical assemblies which helps reduce cross-contamination.

AXON' adds silver ions, known for their antimicrobial and anti-fungus properties, into the polymers used for the jacketing and the overmoulding of assemblies. Bacteria then stop multiplying and die within a few hours.

BIOCOMPATIBILITY TESTS

	PVC						SILICONE ASC160ME1	SILICONE ASC160ME2	SANTOPRENE	CETHAX G	TPUL93AISO	PTFE		FEP
	MIST GREY RAL 9016	FOG WHITE RAL 9002	LIGHT BROWN	BLACK	BLACK NOSO-FREE®	DARK GREY	GREY RAL 7035	LIGHT GREEN	NATURAL	BLUE	NATURAL	NATURAL	BLUE	NATURAL
ISO10993-4 Direct Hemolysis	●	●	●	●				●			○○			
ISO10993-4 Indirect Hemolysis	●	●	●	●				●			○○			
ISO10993-5 Elution Test	●		●	●	●	●	●	●		●	○			
ISO10993-6 Implantation test								●			○			
ISO10993-10 Intracutaneous Test	●		●	●	●		●	●		●				
ISO10993-10 Kligman maximization study	●		●	●	●		●	●		●				
ISO10993-11 Pyrogen Test	●	●	●	●				●						
ISO10993-11 Systemic Injection Test	●	●	●	●				●						
USP XXIII CLASS VI										○	○○	●	●	○
MHW301 Japanese health ministry	●	●												

● : TESTING CARRIED OUT BY AXON'.
○ : TESTING CARRIED OUT BY MATERIAL SUPPLIER.
○○ : TESTING CARRIED OUT BY MATERIAL SUPPLIER ON MATERIAL OF SAME CHEMICAL FAMILY.
OUR PVC COMPOUNDS ARE «NON MIGRATING», DO NOT CONTAIN ANY PHTALATE AND ARE IN COMPLIANCE WITH REACH.
OUR MEDICAL PRODUCTS ARE NOT INTENDED TO BE IMPLANTED IN THE HUMAN BODY.