



## Custom designed cables and interconnect systems for medical applications

Axon' Cable which is ISO13485 approved, specialises in the design and manufacture of custom designed cables and assemblies for medical applications. The company's know-how is based on its expertise in various fields:

- Conductor design and manufacture
- Composite cables
- Jacket and tube extrusion
- Plastic injection moulding and overmoulding
- Interconnect technologies
- High performance custom designed connectors

The company specialises in offering **one-stop shop** interconnect solutions based on :

- Miniaturisation
- Flexibility (qualification with our own test capabilities on request)
- Flex life
- Biocompatibility and sterilisation: autoclaveable cables and assemblies (Medical approvals: ISO 10993, USP XXIII class VI)
- · Antibacterial materials
- Hydrophobic materials
- Robust overmoulding
- · High cosmetic quality
- Non magnetic cables and assemblies
- EMI protection
- Materials in compliance with RoHS directives

Axon' Cable have ISO 7 and ISO 8 clean rooms. It is possible to use laminar flow systems for the workstations, which would then be classified ISO class 5.

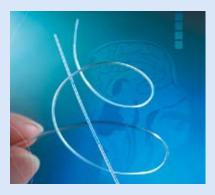
## **Applications**

- External systems for medical implants
- Patient care: monitoring, patient diagnostics
- Dental equipment
- Endoscopy
- Medical imaging
- X-ray & Magnetic Resonance Imaging (MRI)
- Ultrasound probes
- Biological analysis
- Beauty therapy systems
- ECG: heart sensors
- Oxymetry: blood oxygen saturation monitoring



# Expertise in polymer technologies

- Biocompatibility and sterilisation: Silicon, PU, TPE, PVC compounds tested to USPXXIII class VI and ISO 10993 approvals.
- Autoclaveable cables and assemblies
- Sterilisable cables and assemblies (Cidex®, Korsolex®)
- Hydrophobic PTFE tubing
- Custom designed colouring with FDA approved colorants.



- $\bullet$  PTFE tubes for micro-catheters  $% \left( 1\right) =1$  with walls as thin as 10  $\mu m.$
- PTFE Multilumen tubing (several channels in the same tube).
- Celloflon® dielectric material: Axon' patented expanded PTFE. The use of Celloflon® enables the manufacture of lighter, smaller, more flexible coaxial cables.
- Thermo-forming : biocompatible shapes made with a Celloflon® membrane.
- Noso-free® cables and assemblies : antibacterial jacketing to improve protection against nosocomial infections.
- Low noise coaxial cables: to control noise due to oscillations or vibrations, while maintaining the dielectric properties of the cable.

## Miniature cables

- Miniature composite, miniature camera and hybrid cables.
- PTFE and Celloflon® (expanded PTFE) wires
- Miniature Picocoax® coaxial cables : an excellent combination of a tiny diameter (e.g 0.20 mm) with capacitance of 50 to 100 pF/m.
- Flat Flexible Cables in both unshielded and shielded versions, for board to board interconnect with pitches down to 0.50 mm and 0.30 mm.
- Axolink® Flat Display Connection (FDC). Our plug and play solutions for flat display interconnect consist of Flat Flexible Cables with connectors for fine pitch (DF-9, DF-19, FI-S, FI-X)- Axon' also offer shielded flat cables terminated with connectors compatible with FI-R connectors for full HD flat displays (LVDS standard).







CIDEX® - KORSOLEX® : registered trademaks

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#### >> FRANCE

#### AXON' CABLE S.A.S.

2 ROUTE DE CHALONS EN CHAMPAGNE 51210 MONTMIRAIL

TEL: +33 3 26 81 70 00 FAX: +33 3 26 81 28 83 sales@axon-cable.com http://www.axon-cable.com

HEADQUARTERS

### » CHINA

#### AXON' INTERCONNECT LIMITED

HIGH TECH INDUSTRIAL PARK CHANG BAO XI ROAD RONGGUI, 528306 SHUNDE, GUANGDONG TEL: + 86 757 2838 7200 FAX: + 86 757 2838 7212 sales@axon-interconnect.com

#### >> GERMANY

#### **AXON' KABEL GmbH**

POSTFACH 1131 D - 71201 LEONBERG HERTICHSTR. 23 D - 71229 LEONBERG TEL: +49 7152-97992-0 FAX: +49 7152-97992-7 sales@axon-cable.de

#### >> HUNGARY

#### AXON' KÁBELGYÁRTÓ Kft.

H-6000 KECSKEMÉT, WÉBER EDE U. 10/A TEL:+36 76 508 195 FAX:+36 76 508 196 axon@axon-cable.hu

#### » INDIA

## AXON' INTERCONNECTORS AND WIRES PVT LTD

NO:118, Suite 4 E, Neil Rao Towers, Road NO:3, EPIP, WHITEFIELD BANGALORE 560066 TEL:+91 80 40918186 FAX:+91 80 40918185 sales@axon-cable.in

#### » JAPAN

#### AXON' CABLE JAPAN OFFICE

PMR 1410043 3-23-3, Minami-Oi, Shinagawa -Ku TOKYO 140-0013 JAPAN TEL. /FAX: +81 26 244 2261 axon-japan@nifty.com

#### » LATVIA

#### AXON' CABLE SIA

VIŠKU IELA, 21 C DAUGAVPILS - LV-5410 TEL +371 6540 7891 FAX +371 6540 7893 axon@axoncable.lv

#### » MEXICO

#### AXON' INTERCONEX, S.A. DE C.V.

AV. PEÑUELAS 26 A.
INDUSTRIAL SAN PEDRITO PEÑUELAS.
C.P.76148 QUERÉTARO, QRO. MÉXICO
TEL / FAX: +52 442 220 6464
TEL: +52 442 215 2713
n.rodriguez@axoncable.com

#### » SPAIN

#### **AXON' CABLE SPANISH OFFICE**

C/ CAPITÁN HAYA, N.º 1, PLANTA 15 28020 MADRID TEL: +34 91 418 43 46 FAX: +34 91 556 28 80 sales@axon-cable.com

#### >> UNITED KINGDOM

#### AXON' CABLE Ltd

AXON' AGORA Admiralty Park - ROSYTH - FIFE KY11 2YW - UK TEL: +44 1383 421500 FAX: +44 8715 282789 sales@axon-cable.co.uk

#### » USA

#### AXON' CABLE INC.

1314 PLUM GROVE ROAD SCHAUMBURG, IL. 60173 TEL: +1 847 230 7800 FAX: +1 847 230 7849 sales@axoncable.com

шшш.axon-cable.com
шшш.medicalaxon.com

AXON' AGENT