



axon'

CABLE & INTERCONNECT



PTFE expertise

PTFE EXCELLENT CHARACTERISTICS

- > **HEAT**
TEMPERATURE RESISTANCE
FROM -200°C TO +260°C
- > **CHEMICAL AND MECHANICAL**
NON-ADHESIVE PROPERTIES,
CHEMICAL INERTNESS
- > **ELECTRICAL**
LOW DIELECTRIC CONSTANT
($\epsilon=2.1$), LOW LOSS FACTOR
(0.0002)
- > **BIOCOMPATIBLE**
ANTIMICROBIAL PROPERTIES

www.axon-cable.com
CONTACT & VISIT AXON' WEBSITES

AXON' has gathered experience for over than 40 years in the manufacture of TEFLON® PTFE (Polytetrafluoroethylene) insulated wires and cables, tubes and films. AXON' has patented a porous PTFE material called CELLOFLON® and an alveolar material brandnamed A-PTFE®. Both allow for more flexible cables with a lower dielectric constant ($\epsilon = 1.35$)

PTFE insulated wires

Different types of conductor can be insulated : copper –silver or nickel plated, silver plated nickel, platinum, Chromel/Alumel and bare copper without any surface treatment.

PTFE insulated cables

MINIATURE ALVEOLAR COAXIAL CABLES A-COAX®

a-coax® cables are a-PTFE® insulated cables. This alveolar PTFE material allows for less insertion losses, higher frequencies, weight saving and easier stripping.

Applications : transmission links for IT technology and phones.

FLEXIBLE FLAT COMPOSITE CABLES FLEXTRACK®

Very flexible flat cables with high flex life performance: more than 20 millions of flex cycles. An asymmetrical version is available.

Applications : robotics and automation.

MINIATURE COAXIAL CABLES PICOCOAX®

Diameters down to 0.20 mm.

Multipicocox® cables : bundles up to 512 miniature wires.

Applications : medical, general electronics where a large number of signals have to be transmitted with no interference.

COAXIAL CABLES WITH SOLID PTFE DIELECTRICS

Flexible coaxial cables with solid PTFE dielectrics and outer diameters down to 10 mm, conformable cables.

Applications : military and telecommunications to transmit signals with minimum distortion and attenuation while preventing the reception of outside interference.

PTFE insulated cables assemblies

MICROWAVE COAXIAL CABLE ASSEMBLIES AXOWAVE

Low loss microwave coaxial assemblies with CELLOFLON® dielectric for frequencies up to 50 GHz. Lightweight coaxial cable assembly : 30% less weight compared to current aeronautics standard.

Applications : aeronautics for radars, supervision system.

HIGH DATARATE LINKS

100Ω and 150Ω parallel or twisted pairs, multipairs or quads. High speed 10 Gb/s Cat. 6a Ethernet link with a A-PTFE® dielectric terminated with MIL-DTL-38999 or Micro-D connectors.

Applications : aeronautics, space and military.

PTFE tubes, profiles and rods

Used for the conveying of liquids and hot and/or volatile gases, cable insulation, the manufacture of catheter tubes, drip tubes, pipettes, multilumen, bicolored, radio-opaque, CELLOFLON® tubes. Ultra thin intracerebral microcatheters PTFE tubes down to 10μm.

Thermoforming

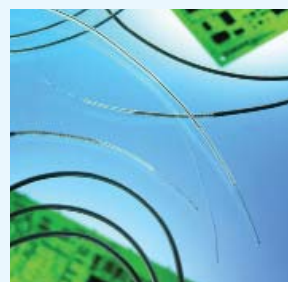
CELLOFLON® membranes are used to manufacture very complex shapes with special patented process.



> ALVEOLAR COAXIAL CABLE



> FLEXIBLE COMPOSITE CABLE



> MINIATURE COAXIAL CABLE



> COAXIAL CABLE



> HIGH SPEED 10 Gb/s LINK



> INTRACEREBRAL MICRO CATHETER