



ENGINE COMPARTMENT

SENSORS AND TRANSMITTERS

- Thermocouple wires
 - Thermocouple conductor N (Nisil / Nicrosil)
 - PTFE insulation
 - Temperature resistant (up to 260°C)
 - Lightweight
 - Small dimensions
- Overmoulded connectors

TORQUE SENSORS

- Overmoulded connectors

STOP-AND-START SYSTEM

- SMD interconnectors for reflow processes
- Sealed connectors with pressfit terminals and potting

INJECTORS

- Overmoulded coils

ADDITIONAL HEATING IN DIESEL ENGINES

- Mechatronic parts

ELECTRICAL ENGINE CONTROL SYSTEM

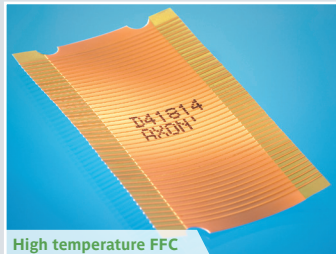
- Power leadframes
 - High current density
 - Sealed and compact

POWER INVERTERS FOR ELECTRICAL CARS

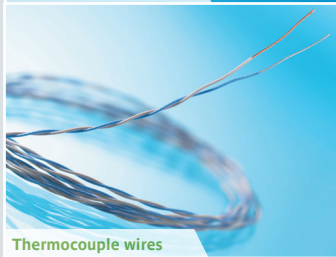
- High temperature FFC and round cables
 - Polyimide insulations (125°)
 - Board-to-board interconnection
- Custom designed sealed connectors and pinheaders (square our round pins)

AUTOMATIC GEAR BOX

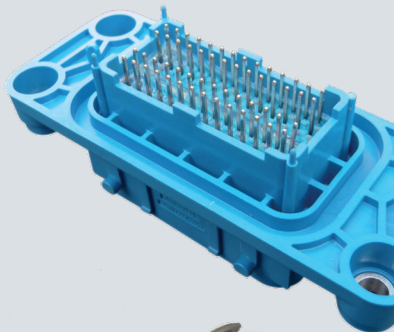
- Extruded flat cables
 - Oil and temperature resistant thermoplastic insulation (125°C)
- Overmoulded filters



High temperature FFC

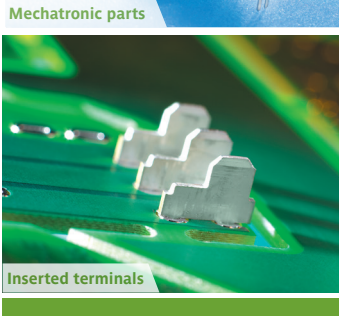
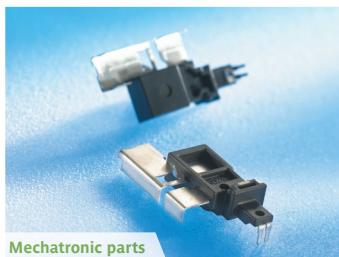


Thermocouple wires



WIPER SYSTEMS

- Overmoulded connectors
 - Electrical contact and transport of fluids
 - Watertight
 - Pressure resistant
- Inserted terminals
 - Adapted to wave soldering or reflow processes
 - Pressfit terminals available.
 Thickness: 0.6mm, 0.8mm and 1mm for signal and power applications
 - Semi-automatic and automatic insertion solutions for PCB assembly



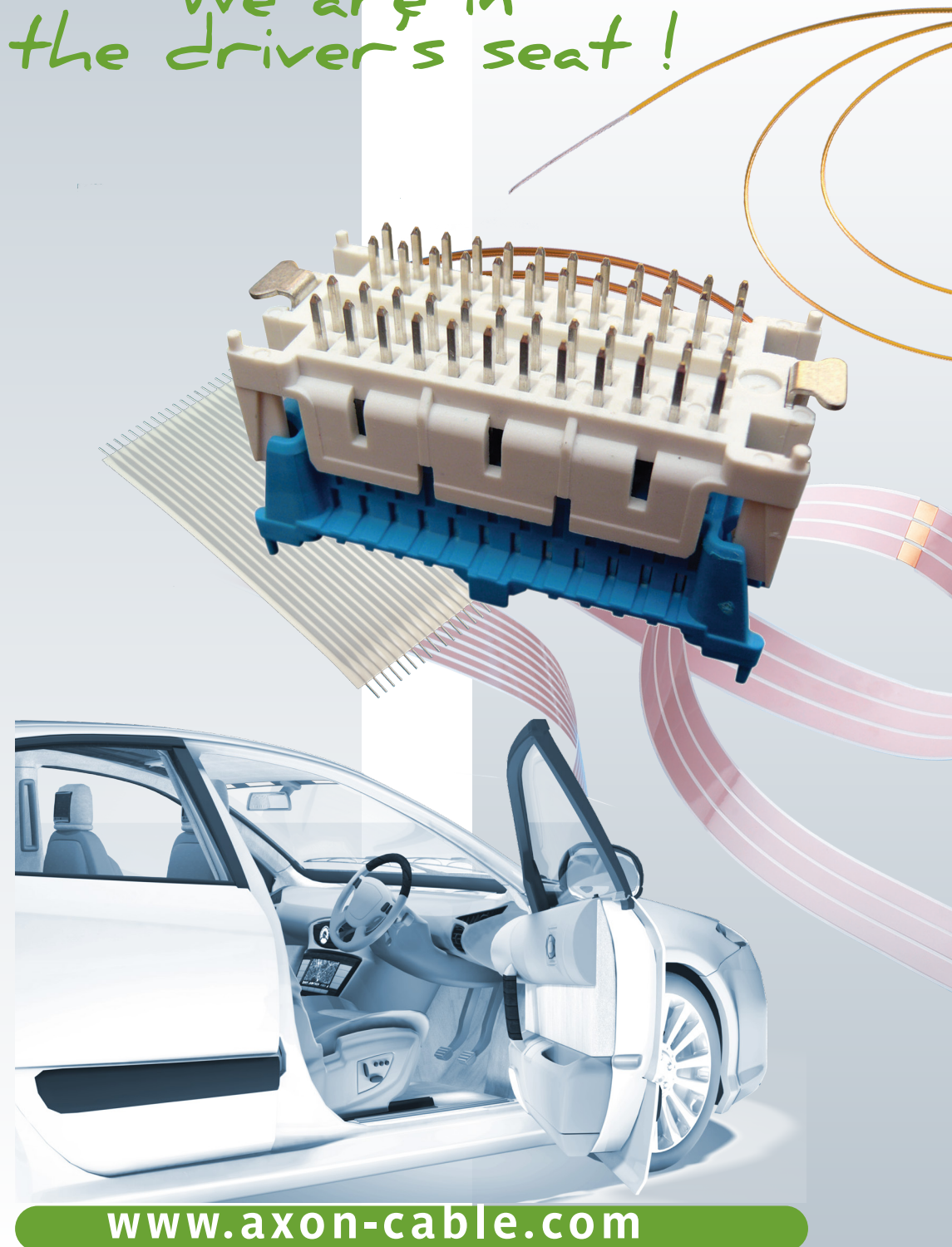
Mechatronic parts

Inserted terminals

axon'

AUTOMOTIVE INTERCONNECT

We are in the driver's seat!



www.axon-cable.com

axon'

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 AxBlue® - REGISTERED TRADEMARK OF VDA (GERMAN ASSOCIATION OF THE AUTOMOTIVE INDUSTRY) - V-BY-ONE® - REGISTERED TRADEMARK OF THINE ELECTRONICS.



OUR MAIN EXPERTISES

- Drawing of miniature conductors
- Plating on metal or plastic parts : tin, nickel, silver, gold and more
- Extrusion and lamination of temperature and chemically resistant insulation materials
- Shielding techniques : braiding, taping, shield termination, simulation and measurement of EMC performance
- Stamping of precision metal parts
 - Electrostriction of wire pins and interconnect pin headers
- Moulding and overmoulding of connectors and cables
- Mechatronics : integration of electromechanical and electronic components
- Cabling : termination of flat and round cables
- Assembly using manual or automatic processes
- Development of automatic manufacturing processes

AUTOMOTIVE INTERCONNECT

We are in the driver's seat !

Connectivity, active safety, electro mobility, reduction of air pollution – these are some of the major trends in the automotive industry. Therefore more and more high tech electronic devices have to be connected inside our cars.

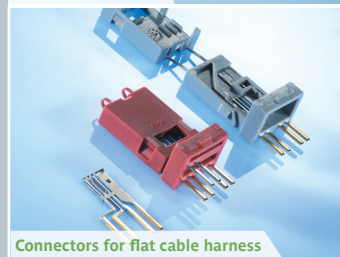
Reliability, weight and space saving, flexibility, temperature resistance, power transmission, EMI protection....these are some of the demanding requirements Axon' has to take into account. We take up the challenge ! From standard flexible flat cables to custom designed complete mechatronic interconnect systems Axon' offers solutions to connect virtually every part of the vehicle.

Axon's integrated manufacturing sites in Europe, Asia and America can handle all orders from small and medium size volumes right up to mass production. All sites involved in the manufacture of automotive products are ISO 9001 and TS16949 certified.

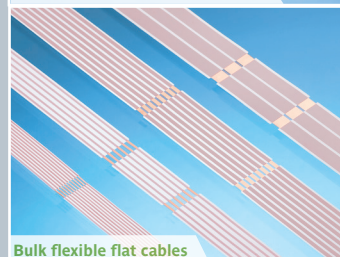
Discover our numerous product ranges suited to connecting all the different equipments of a vehicle !



Flat cable harness



Connectors for flat cable harness



Bulk flexible flat cables

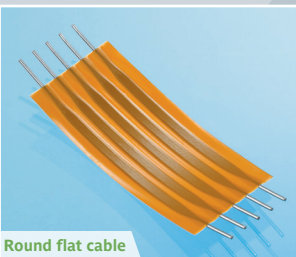
STEERING SYSTEM

BOARD-TO-BOARD CONNECTION FOR ELECTRONIC CONTROL UNIT (ECU)

- Round flat cable Axostrip™
- Flat cables with round pins
 - Reliable through-hole interconnection compatible with wave soldering process
 - No connectors necessary
 - Insulation : Polyester (105°C), Polyimide (125°C) or Aramid (125°C)
 - High resistance to bending and vibration

HYDRAULIC AND ELECTRIC POWER STEERING

- Overmoulded connectors with signal and power contacts
- Integrated sealing system



Round flat cable



Connector with pressfit terminals

MULTIFUNCTION STEERING WHEEL

AIRBAG SWITCH ROTARY CONNECTOR

- Custom designed flat flexible cables
- High quality reliable bulk flat cables Flexlink®
 - High flexlife
 - Conductors: width starting from 0.6 mm, small thickness (35 µm)
 - Low width construction Picoline® for noise reduction
 - Clean stripped areas suited for welding processes
- Overmoulded or inserted connectors
- Precision stamped metal parts
- Terminated flat cable harnesses

STEERING WHEEL HEATING SYSTEMS

- Bulk flexible flat cables
- Large conductors (up to 19 mm), small thickness (35 µm)
 - Power transmission 8 A
 - Low width construction Picoline®
 - High flexlife
 - Clean stripped areas suited for welding processes



OTHER STEERING WHEEL FUNCTIONS : INDICATORS, RADIO/GPS/CRUISE CONTROL

- Connectors with pressfit terminals
- Solderless connection onto the PCB (patented solution)

INFOTAINMENT SYSTEM/ CAMERAS/ DASHBOARD

BOARD-TO BOARD INTERCONNECTIONS

- Flat flexible cables Axojump™
- Tin or gold plated conductors to avoid whiskers
 - Polyester (105°C) or Polyimide (125°C) insulation
 - 0.5 or 0.3 mm pitch for high density connection in a limited space
 - Shielded version for EMI protection
 - Punchings for easy positioning and locking into the connector
 - Custom add-ons : folding, marking, adhesives, etc

DISPLAY CONNECTION

- Flat display connection FDC Axolink™
- Compatible with industry standard connectors (DF-9, DF-19, FI-SE or FI-X,...)
- HD display connection FDC 100®
- High speed (LVDS) and ultra high speed (UHS – V-by One® HS protocol) transmission
 - 100 ohms impedance shielding
 - Axon' connector with simple connection system

PASSENGER COMPARTMENT

WINDOW LIFT

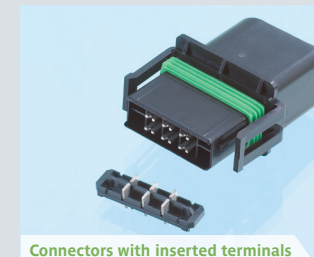
- Connectors
- Mechatronic parts
- Functional connector with PCB inside

SHADING SYSTEM

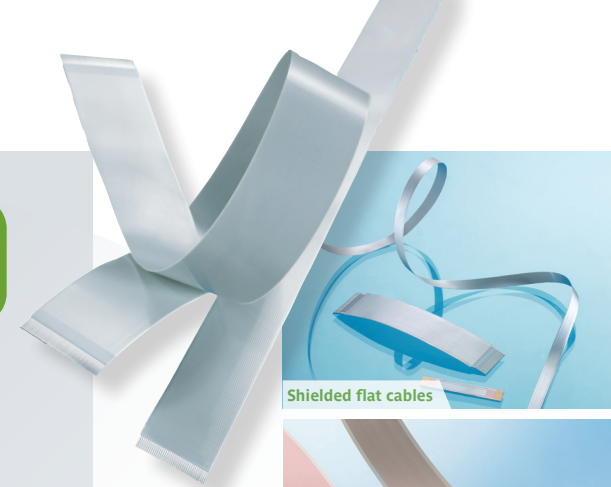
- Connectors with inserted terminals



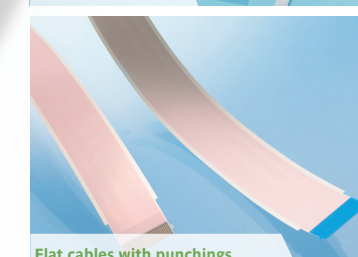
Extruded flat cable



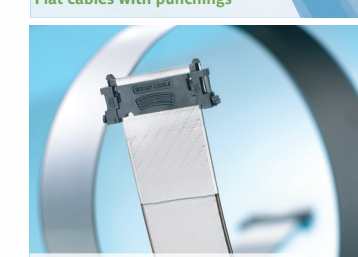
Connectors with inserted terminals



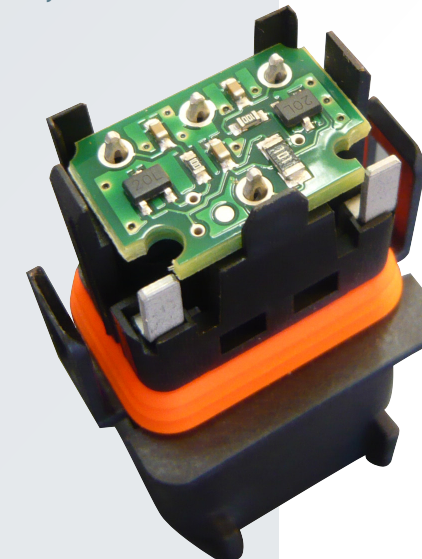
Shielded flat cables



Flat cables with punchings



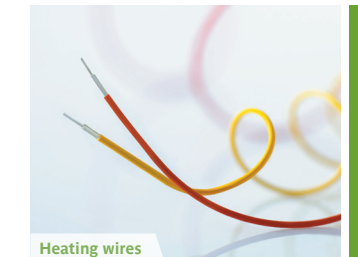
HD display connection FDC 100®



EXHAUST PIPE

SELECTIVE CATALYTIC REDUCTION SYSTEMS (SCR)

- Heating wires
- Nickel alloy conductors with high electrical resistance
 - Temperature resistant FEP insulation (200°C)
 - Resistant to AdBlue® fluid
 - Small dimensions



Heating wires