

www.axon-cable.com



- *EMI*
- *Transfer impedance*
- *Frequency*
- *Shielding termination*
- *Overbraiding*



**AXON' CABLE, THE EXPERT IN
ELECTROMAGNETIC PROTECTION**

Electrical cables and interconnect assemblies are often the first systems affected by electromagnetic interference.

Directed or radiated, in emission or in susceptibility, electromagnetic perturbations have a hard life with AXON' CABLE's solutions for :

- Cables, AXON' adapts the shielding with a braid or an over-braiding.
- Assemblies, Our technicians position shield terminations to achieve perfect continuity.
- Cabling accessories , AXON' offers a whole range of shield termination bands.

NOT EVERYONE CAN BE AN EMI EXPERT

AXON' CABLE has had expertise in EMI since 1986. Its expertise is based on a coherent analysis of electromagnetic problems in order to guarantee a specified immunity of the links.

PRE-STUDY AND PREDICTION

From the design of the cable and the link, AXON's engineers have to intervene and advise with their own simulation software. They define future transfer impedance (this is a parameter which defines the EMI quality of a link) using the frequency of the device.

DESIGN

The important challenge of the design is to adapt the quality of the termination to the quality of the cable while taking the final environment into account, mainly the frequency. AXON' advises the most suitable components (cables, connectors, shielding technology and backshells).

MANUFACTURE

AXON' offers different optimised shielding methods for different applications : general shielding termination and/or cable elements (wires, triples, shielded wires, etc), silver plated aluminium light shielding, and overbraiding of assembly's branches.

Shielding termination for connectors can be carried out on 360° with a patented metal band called AXOCLAMP®. This ensures the continuity of shielding efficiency at the cable/connector junction.



AXOCLAMP® TERMINATION

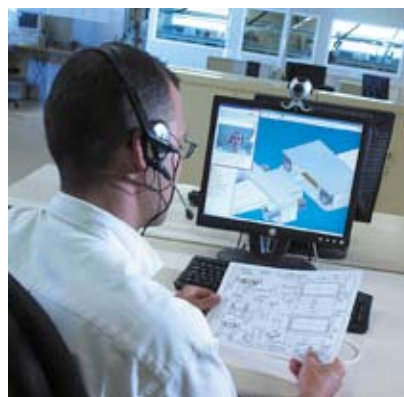
CONTROL

This is a major stage which guarantees the quality of the electromagnetic protection. The transfer impedance is controlled with test benches after the manufacture of the cable and cabling of the link. AXON' has test means which allow control of the shielding efficiency on the assemblies and 3D complex harnesses (triaxial method, microstrip method, a mode stirred chamber, 360° test bench). A final test report is printed for every assembly.



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ENGINEERING DEPARTMENT



MICROSTRIP METHOD