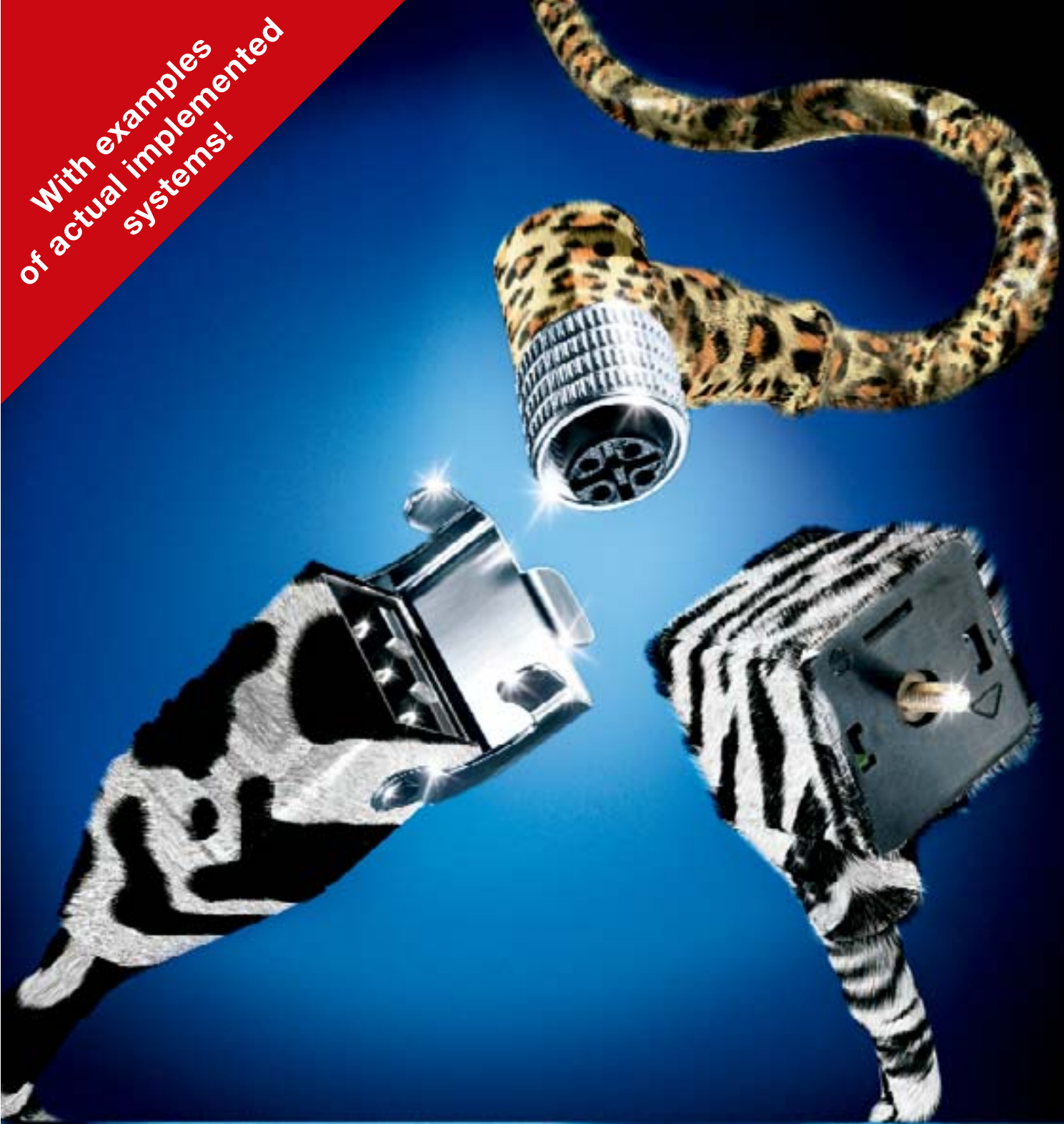


With examples
of actual implemented
systems!



Wildly individual:

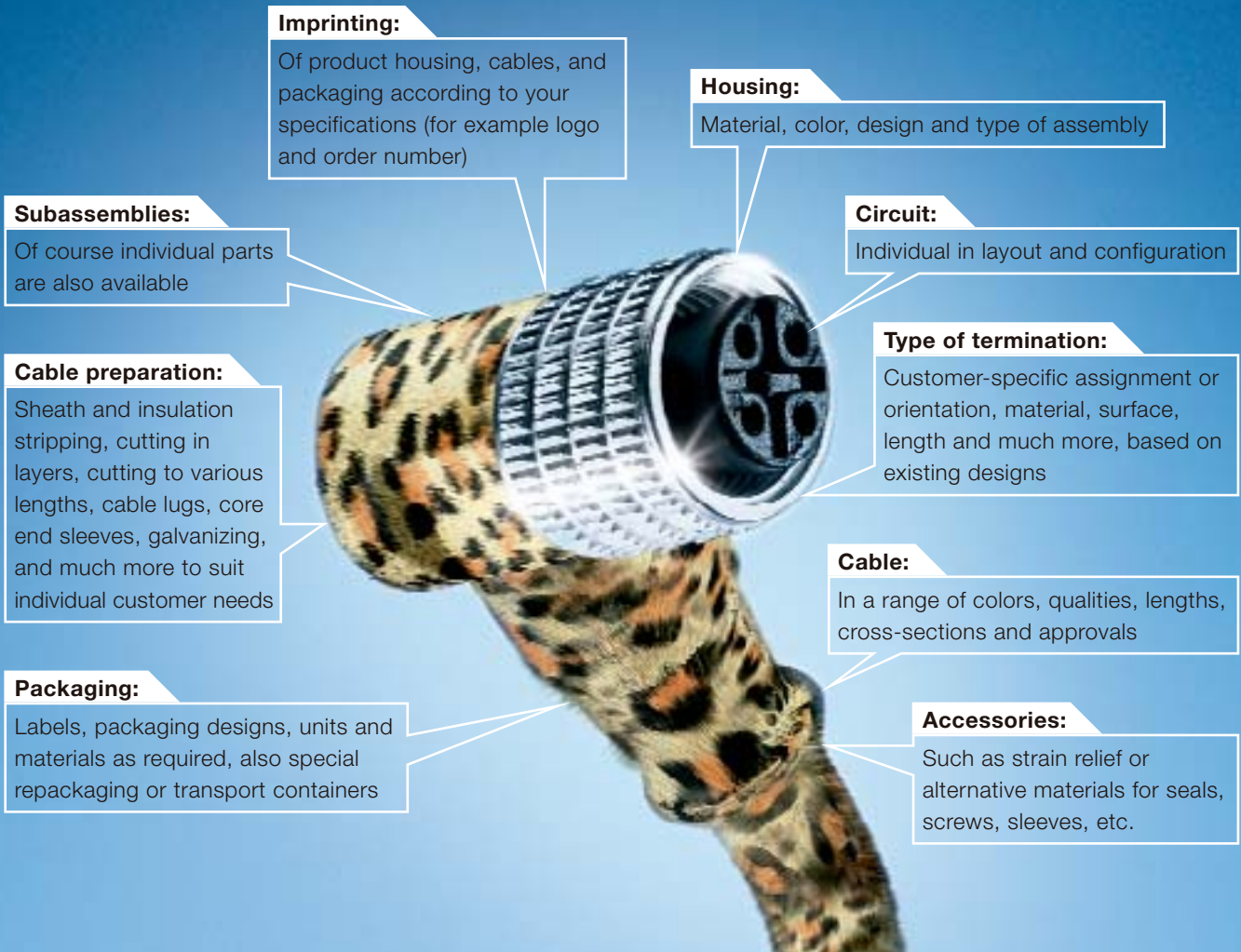
Connectors Unlimited from Hirschmann.

- Special customized solutions
- High level of competence from the leader in quality
- Extension of the standard program and the OpenConnector module
- Maximum flexibility and rapid response times
- Economical solutions based on mass production items



HIRSCHMANN

“We don’t have that...?” Not with Hirschmann! – Connectors Unlimited.



Requirements and Solutions

If you consider the matter carefully, there are more and more customized connector solutions today that should really not cost much more than a standard product.

It may be a customized adjustment of one of our standard products to customer specifications, or the solution to a specific customer problem using the ConnForm® platform concept, or the completely new development of a connector solution. Whatever the need, Hirschmann is your competent supplier and partner connecting you to your future. The more restrictive the overall system conditions, the more complicated the requirements are for connection technology. That's when it's good to be able to count

on an experienced problem-solver like Hirschmann. We can develop, produce and deliver your customized, highly flexible connector solution together with the corresponding expertise and service even for relatively small batch sizes. And all of that with rapid response times, from technical and financial verification through a customized quotation for the right solution and beyond development to delivery. Talk with us about your specific needs beyond our standard series products – it doesn't need to be expensive to meet your requirements. Connectors Unlimited is your individual and economical connection – made to order!

We keep our promises: Practical examples.

Example 1

Smaller, thinner, better: Circular connectors M 8 with extremely thin wire cross-sections down to 0.05 mm²



Requirements and Solutions

Industrial applications are becoming much smaller and more compressed. For example, it's no longer rare to encounter sensors with an external diameter of 2 mm. Since such sensors are too small to be connected with standard commercial cable cross-sections, new and innovative solutions are in demand.

Hirschmann has met these requirements by an extremely thin cable with a wire cross-section of 0.05 mm². This solution allowed us to perfectly master all aspects of terminating a fine, delicate conductor to a contact carrier forming a quality connection between cable and contact.

Advantages

A small, innovative connector solution ideally tailored to the requirement that works with the same reliability you have come to expect from our mass produced products. And all of that from the Hirschmann source of quality, setting a new standard in design. You might even say we shrink to fit our customers' needs.

Other Applications

In all industrial areas where space-saving and reliable solutions are needed: In machine building and systems manufacturing, in precision mechanics and sensor systems.

Example 2

Work made to order in minimum space: Appliance connectors M 12 for special applications



Requirements and Solutions

The increasingly small device housings in control and automation systems with ever smaller dimensions require appliance connectors with precisely defined dimensions. Most standard commercial appliance connectors share the disadvantage, however, of taking up too much space in the housing. If assembly is not performed correctly, this can easily lead to leaks and a loss in reliability and safety.

That's where the Hirschmann engineers demonstrate their mastery: To avoid the disadvantages just alluded to, Hirschmann developed a special connector with extremely compact installation dimensions. Incorrect

assembly is prevented by the sealing ring, which faces inward.

Advantages

With these features, Hirschmann is also offering the best long-term solution to ensure a safe and reliable connection in very cramped quarters – and all at the highest quality you've come to expect from Hirschmann.

Other Applications

In all industrial areas where space-saving and reliable solutions are needed, e.g. in machine building, precision mechanics, sensor applications, etc.

Example 3

The solution that came in from the fog: Self assembly cable socket M 12 for harsh environment



Requirements and Solutions

In vibration sensors used in tunnel construction, the task was to find an agent to withstand the salt spray mist caused in winter by moisture and salt which has been spread in the tunnel. This mist can have a highly corrosive effect on the locking nut. Then the nut can no longer be loosened and the connector cannot be replaced. Our bright solution was a locking nut made of stainless steel, which is much more resistant to environmental extremes.

Advantages

Optimum protection against adverse external conditions in the tunnel environment and maximum safety and ease of handling even under long-term extreme conditions.

Other Applications

Although this is an example of an extremely harsh environment, this solution could also be used in other areas of industry also subject to unique environmental conditions.

Example 4

Perfectly adapted: Valve connector on a M 12 socket for pressure recording



Requirements and Solutions

Our engineers sometimes follow revolutionary paths in design. That's what happened when they had to create connectors for pressure sensors at high volumes and a standard valve connector couldn't be used because of the small dimensions of the sensor. Since the need was based on valve connectors, however, an adapter solution had to be found. Our approach: An adapter housing with the socket part of a self assembly M12 connector on one side and a valve connector on the other side – both connected with wires.

Advantages

A smart, economical adapter solution instead of a product based on a completely new development.

Other Applications

These and other special applications impressively demonstrate Hirschmann's high level of competence in development and solutions, which can always be transferred from one branch or application to another. They also illustrate how to take advantage of two of Hirschmann's greatest strengths: Sensor and valve connectors.

Example 5

Sometimes a good connection is worth its weight in gold: Valve connector with gold-plated contacts



Requirements and Solutions

In many countries across the world, products may need to be stored for extended times under adverse conditions. When this happens, factors such as high relative humidity and greatly fluctuating temperatures may lead to corrosion on the contacts, which has a significant effect on the functionality of the application. For this reason, Hirschmann has partially gold-plated the contacts, using an economical process that prevents corrosion.

Advantages

Corrosion-resistant products that are insensitive to outside influences and thus have a longer service life.

Other Applications

A smart and ideal solution for products that will be used in places with special climatic conditions, but also for general applications that are subject to high relative humidity.

Example 6

Rectangular connectors G-series for high temperature applications deal with the heat



Requirements and Solutions

The very high temperatures that prevail in saunas, combined with the high relative humidity, make it a problem for many sauna manufacturers to find a suitable connector. This application requires temperature resistance up to 125° C and protection type IP 65. But even this challenge proved to be “no sweat” for Hirschmann’s engineers: A special sauna connector almost identical in appearance to the catalog product but with increased temperature resistance was developed. The increased temperature resistance was achieved by using new contacts and special seals.

Advantages

Heat-resistant connectors with first class temperature characteristics that always keep a cool head and ensure reliable connections even under extreme conditions.

Other Applications

Because of the excellent heat characteristics, the same solution was also used for a manufacturer of electrical pizza warmers. Sensor applications, for example at the control output of an engine, are also warmly recommended for this rectangular connectors.

Cables to specification and connectors that leave no wish unfulfilled – OpenConnector.



Individual solutions as the new standard

In addition to our catalog products, you can also receive custom manufactured sensor and actuator connecting cables in individual batch sizes. You can select different features individually through the Hirschmann Online Configurator. These include, among others, cable length, cable terminations that

can be prepared in various ways, different cable qualities (e. g. PVC, PUR), different numbers of pins, straight or angled designs – and all of these in different colors. Even special cable imprinting is now no problem. Extensions to other Hirschmann connector series are also planned.

Product Features

Connectors Unlimited is an extra service tailored closely to customers' needs above and beyond our proven catalog products for maximum flexibility and the ultimate in individuality with rapid response times.

The service offers:

- Every keying-options
- Every type of termination

- Any media
- For any installation

And of course all at the same high quality you have come to expect from Hirschmann connectors. The choice is entirely yours!

Applications

This brochure shows a small excerpt of our current references. "Connectors Unlimited by Hirschmann" opens up an enormous range of applications beyond that: Whether in sensor or actuator applications; in hydraulic, pneumatic or electromagnetic actuators; in industrial automation; in machine manufacturing

or in traffic engineering; whether in building services technology; in IT; in photovoltaic systems or in entertainment electronics. In short: Wherever Hirschmann already ensures reliable connections, Connectors Unlimited will perfectly satisfy your needs.

Let's talk:
Connectors-Unlimited@Hirschmann.de

Read more about our
practical
examples inside





HIRSCHMANN

Hirschmann. Simply a good Connection.



- Production bases
- Sales subsidiaries
- Selected distribution partners

Hirschmann Automation and Control GmbH

Industrial ETHERNET

FiberINTERFACES

Industrial Connectors

Electronic Control Systems

WWW.HIRSCHMANN.COM

"The information/details in this publication merely contain general descriptions or performance factors which, when applied in an actual situation, do not always correspond with the described form, and may be amended by way of the further development of products. The desired performance factors shall only be deemed binding if these are expressly agreed on conclusion of the contract."