



### Project information

- Client: One of the world's the largest electrical engineering companies
- Project size: > 12,000 units per year, duration > 6 years
- Cables available in lengths: 2 m, 5 m, 8 m, 10 m, 15 m, 20 m, 25 m.
- Sector: Industry
- Product area: Connection Technology
- Services: Material consulting, design-in, supply chain coordination, climate and load testing

### Elektrosil's services

- Application consultation, development assistance, design-in support
- Quality assurance
- Engineering and production
- Completely customised applications



„Our control panels needed a secure connection that won't snap off. That's when I called Elektrosil.“

To ensure that the control panels always remain connected, even under harsh conditions, their cables must be exceptionally robust and reliable. Elektrosil provided a reliable high-end solution.

### THE CHALLENGE

The customer required a special solution for its innovative Human-Machine Interfaces for controlling machinery: A hybrid cable for data and power, which is resistant to liquids and acids, made in a customer-specific special colour. The connection solution for the control panel must withstand even the highest tensile forces. The client specified suppliers for certain areas. The development was done by himself.

### THE SOLUTION

Elektrosil assembled a highly competent manufacturing team from its own network around the specified suppliers. The engineering team coordinated the exchange of information and provided the customer with precise support. The coordination included all processes of manufacturing and assembling in Germany and best-cost countries.

The great experience in coordination guaranteed a smooth process in the implementation of change requests and the provision of components. The focus was on the quality of the solution: the raw cable, including shielding of the data line and UL certification, was manufactured by a cable specialist. In addition to the 100 percent final inspection in the external

production, Elektrosil tested the samples in-house, e.g. with long-term tests in the climate chamber. This ultimately led to a failure rate of less than 0.1 percent. The optimal hold of the cable is ensured by a robust plug-in connection that can withstand a tested tensile force of 400 N. The firm connection of the cable to the interface housing was created thanks to a special adhesive.

### OUR STRENGTHS

- Great expertise in the field of connection technology
- Many years of experience in Asia
- One-stop shop: From consulting to development and simulation to manufacturing and delivery

**Are you also looking for a custom-fit solution for your system and a competent partner? Then give us a call: +49 40 840001-0.**