



## Product overview

### About us

ESCHA has stood for competence and quality in connectivity- and housing technology for more than 30 years. We develop and manufacture connectivity that stands up to the industrial requirements of automation as well as numerous other application areas.

Through our innovative strength and a highly in-depth production, we realize industry-related special solutions and custom-made products on a daily basis.

Our claim is, let our customer experience the extraordinary. Getting pleasure from service, innovation and technology are our roadmap to economic success; social responsibility and sustainable budgeting are our benchmark.

### The ESCHA group

We develop and manufacture with approx. 600 employees worldwide. We guarantee high availability and consistent quality of our products worldwide through production capacities in Germany, Czech Republic and China as well as licensed production in USA and Mexico.

ESCHA connectivity- and housing technology is at your disposal worldwide via own sales companies and a network of sales partners.

Since June 2009, ESCHA has had the status of Authorized Economic Operator. This AEO-Certification provides us with customs-law simplifications and guarantees our customers high security standards within the entire international supply chain.

### Connector- and housing technology

- **an entire standard-programme**  
robust, with highest protection classes (IP67 | IP68 | IP69)  
360° shielded, bus capable, drag chain- and robot suitable, oil-, chemicals resistant
- **for special requirements**  
resistant to detergents, high-pressure- and steam-jet cleaning, and high temperatures, special data transmission features (10Gbit/s | Cat6A), reliable power transmission
- **custom-made solutions**  
modified standard products for your application – quick, flexible and professional – individual product development beginning with the idea through design, tool-making up to series production



|         |                 | Automation industry   |   |  |  | POWER   | Data transmission  | Food & Beverage  | High temperature-proof   |
|---------|-----------------|---|---|--|--|---|--|--|--|
| PRODUCT | Features        | <ul style="list-style-type: none"> <li>IP65   IP67   IP68</li> <li>UL/CSA listed</li> <li>optional 360° shielding through reliable and patented ESCHA two-shell shielding-concept (2SSK)</li> </ul> |   |  |  | <ul style="list-style-type: none"> <li>reliable power transmission</li> <li>S-coded: 630V<sub>AC</sub>   12A</li> <li>K-coded: 630V<sub>AC</sub>   12A</li> <li>T-coded: 63V<sub>DC</sub>   12A</li> <li>L-coded: 63V<sub>DC</sub>   16A</li> <li>IP65   IP67   IP68</li> </ul> | <ul style="list-style-type: none"> <li>ensures a safe, dependable data transmission for industrial applications</li> <li>according to the corresponding user organizations</li> <li>IE: 4D/100MBit/s   8X/10GBit/s</li> <li>IP65   IP67   IP68</li> <li>UL/CSA listed</li> </ul> | <ul style="list-style-type: none"> <li>Hygienic Design referring to EHEDG directives</li> <li>FDA-compliant materials</li> <li>high resistance to cleaning and disinfectants agents, high pressure and steam jet cleaning (ECOLAB)</li> <li>dust- and waterproof</li> <li>IP65   IP67   IP68   IP69</li> </ul> | <ul style="list-style-type: none"> <li>permanent operating temperature -20°C...+150°C</li> <li>short term maximum operating temperature of +200°C</li> <li>IP65</li> </ul> |
|         | Versions        | Round connectors, Receptacles, Field-wireable connectors  | Valve connectors, Double-valve connectors, Adapters | I/O-junction boxes: Passive junctions, Logic-junctions | Splitter: Y-splitter, T-splitter, Adapters, 2-way splitter with cable outlet | Round connectors, Receptacles, Field-wireable connectors, h-, H-, T-splitter  | Round-, Field-wireable connectors, Receptacles, Feed-through connections, Cable-connections, Y-/T-Splitter, RJ45 patch cords   | Round connectors, Receptacles, Field-wireable connectors   | Round connectors, Receptacles, Field-wireable connectors   |
|         | Type            | M8x1   Ø8mm snap   M12x1   M12x1 Quick-turn connection   M12x1 with defined torque  | A, B/BI, C/CI                                       | M8x1   Ø8mm snap   M12x1                               | M8x1   M12x1   | M12x1   | M8x1   M12x1   RJ45  | M8x1   M12x1   | M8x1   M12x1   |
|         | Cable qualities | PVC   PUR   | PVC   PUR   | PVC   PUR  | PVC   PUR  | PUR   | PUR  | PVC*   TPE   | PTFE   |

|       |              | PVC  | PUR   | PUR   POWER  | PUR   data transmission  | TPE   Food & Beverage   | PTFE   High temperature-proof   |
|-------|--------------|--|---|--|--|---|---|
| CABLE | Applications | <ul style="list-style-type: none"> <li>cost-effective solution for measurement and control-, and sensor technology</li> <li>food- and beverage industry</li> <li>for applications in dry areas on packaging machines, assembly- and conveyor technology</li> </ul> | <ul style="list-style-type: none"> <li>very well suited for the flexible applications in</li> <li>robotics, handling- and assembly technology</li> <li>machine-tool, and metal-cutting production</li> </ul>  | <ul style="list-style-type: none"> <li>Power transmission</li> <li>load circuits of industrial machinery, automatic assembly-, placement machinery</li> <li>wet areas of machine tools, transfer lines</li> <li>motors, frequency converters power supplies</li> </ul> | <ul style="list-style-type: none"> <li>automation-, field-bus-technology</li> </ul>  | <ul style="list-style-type: none"> <li>food- and beverage industry</li> <li>pharmaceutical industry</li> <li>packaging- and bottling plants</li> </ul>  | <ul style="list-style-type: none"> <li>industrial machinery- and plant construction</li> <li>chemical-, automotive industry</li> <li>computer-, and aviation industry</li> </ul>  |
|       | Features     | <ul style="list-style-type: none"> <li>good resistance against acids and lye</li> <li>limited oil- and chemicals resistance</li> <li>restricted abrasion</li> </ul>  | <ul style="list-style-type: none"> <li>drag-chain- and torsion capability</li> <li>silicone- and halogen-free</li> <li>chemicals- and oil-resistant</li> <li>hydrolysis- and microbes-resistant</li> <li>good weld-field immunity</li> <li>high mechanical strength</li> <li>UL/CSA listed</li> </ul> | <ul style="list-style-type: none"> <li>VDE U<sub>0</sub>/U: 600V/1.000V</li> <li>high flexibility, drag-chain capable ≤10mil.cycles, resistant to high mechanical stresses</li> <li>oil resistance</li> <li>halogen-free</li> <li>UL/CSA listed</li> </ul>             | <ul style="list-style-type: none"> <li>excellent transmission features</li> <li>for industrial applications</li> <li>drag-chain capable</li> <li>high mechanical strength</li> </ul> | <ul style="list-style-type: none"> <li>high resistance to sour and alkaline cleaning and disinfectants agents</li> <li>drag-chain capable</li> <li>torsion capable</li> <li>good microbes-resistance</li> </ul> | <ul style="list-style-type: none"> <li>thermal resistance -190°C...+260°C</li> <li>very good chemical-, oil-, acid-strength</li> <li>good ozone- and UV-resistance</li> <li>non flammable, low smoke, without corrosive fire gases</li> </ul> |
|       | ESCHA Type   | P00<br>P01: UL/CSA listed  | S370<br>S7400 robotic: increased drag-chain adaption and torsion-resistance, colour of outer-jacket: orange<br>S400 AL easystrip: manual cable-stripping up to 1.5 meters   | S5015: 1.5mm <sup>2</sup> wire cross-section<br>S5025: 2.5mm <sup>2</sup> wire cross-section   | S3500: Industrial Ethernet (Cat7)<br>S2171: Profinet (Cat5e)<br>S3800: Sercos® (Cat5e)<br>S3400: EtherCat (Cat5)<br>S1800: PROFIBUS<br>S2800: DeviceNet                              | S3930   | S2430   |
|       | Product line | AL, BL, FB*, V   | AL, BL, V   | PK, PL, PS, PT   | IE, PB, CD   | FB  | HT  |



|  |            |   |                    |                       |
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