



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.

ESCHA worldwide

Our base is Halver/Germany. Here, we develop and manufacture with more than 400 employees. 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 (12A | 630V_{AC} or 63V_{DC})
- **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



PRODUCT	Automation industry				POWER	Data transmission	Food & Beverage	High temperature-proof	
	Features	<ul style="list-style-type: none"> IP67 IP69 UL/CSA listed optional 360° shielding through reliable and patented ESCHA two-shell shielding-concept (2SSK) 				<ul style="list-style-type: none"> reliable power transmission 630V_{Ac}/12A S-coded 63V_{Dc}/12A T-coded 	<ul style="list-style-type: none"> ensures a safe, dependable data transmission for industrial applications according to the corresponding user organizations IE: 4D/100MBit/s 8X/10GBit/s IP67 IP69 UL/CSA listed 	<ul style="list-style-type: none"> Hygienic Design referring to EHEDG directives FDA-compliant materials high resistance to cleaning and disinfectants agents, high pressure and steam jet cleaning (ECOLAB) dust- and waterproof IP67 IP69 	<ul style="list-style-type: none"> permanent operating temperature -20°C...+150°C short term maximum operating temperature of +200°C IP65
	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	Round connectors, Receptacles, Field-wireable connectors	Round-, Field-wireable connectors, Receptacles, Feed-through connections, Cable-connections, Y-/T-Splitter	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		PUR	PUR	PVC TPE	PTFE

CABLE	PVC	PUR	PUR POWER	PUR data transmission	TPE Food & Beverage	PTFE High temperature-proof	
	Applications	<ul style="list-style-type: none"> cost-effective solution for measurement and control-, and sensor technology food- and beverage industry for applications in dry areas on packaging machines, assembly- and conveyor technology 	<ul style="list-style-type: none"> very well suited for the flexible applications in robotics, handling- and assembly technology machine-tool, and metal-cutting production 	<ul style="list-style-type: none"> Power transmission load circuits of industrial machinery, automatic assembly-, placement machinery wet areas of machine tools, transfer lines motors, frequency converters power supplies 	<ul style="list-style-type: none"> automation-, field-bus-technology 	<ul style="list-style-type: none"> food- and beverage industry pharmaceutical industry packaging- and bottling plants 	<ul style="list-style-type: none"> industrial machinery- and plant construction chemical-, automotive industry computer-, and aviation industry
	Features	<ul style="list-style-type: none"> good resistance against acids and lye limited oil- and chemicals resistance restricted abrasion 	<ul style="list-style-type: none"> drag-chain- and torsion capability silicone- and halogen-free chemicals- and oil-resistant hydrolysis- and microbes-resistant good weld-field immunity high mechanical strength UL/CSA listed 	<ul style="list-style-type: none"> VDE U₀/U: 600V/1.000V high flexibility, drag-chain capable ≤10mil.cycles, resistant to high mechanical stresses oil resistance halogen-free UL/CSA listed 	<ul style="list-style-type: none"> excellent transmission features for industrial applications drag-chain capable high mechanical strength 	<ul style="list-style-type: none"> high resistance to sour and alkaline cleaning and disinfectants agents drag-chain capable torsion capable good microbes-resistance 	<ul style="list-style-type: none"> thermal resistance -190°C...+260°C very good chemical-, oil-, acid-strength good ozone- and UV-resistance non flammable, low smoke, without corrosive fire gases
	ESCHA Type	P00 P01: UL/CSA listed	S370 S7400 robotic: increased drag-chain adaption and torsion-resistance, colour of outer-jacket: orange	S5015: 1.5mm ² wire cross-section S5025: 2.5mm ² wire cross-section	S3500: Industrial Ethernet (Cat7) S2171: Profinet (Cat5e) S3800: Sercos® (Cat5e) S3400: EtherCat (Cat5) S1800: PROFIBUS S2800: DeviceNet	S3930	S2430
	Product line	AL, BL, FB, NM, SV, V	AL, BL, NM, SV, V	PS, PT	IE, PB, CD	FB	HT