



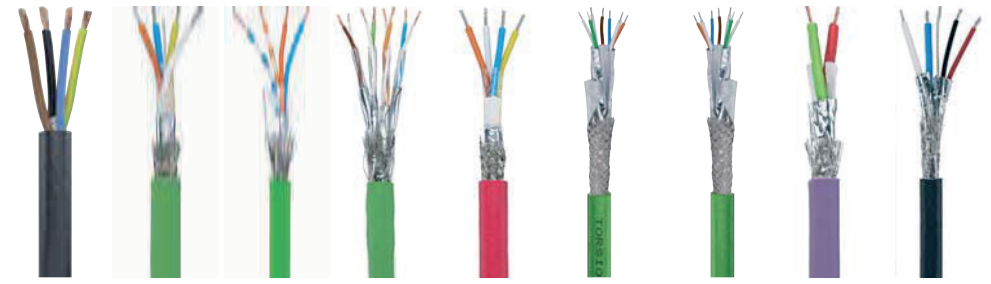
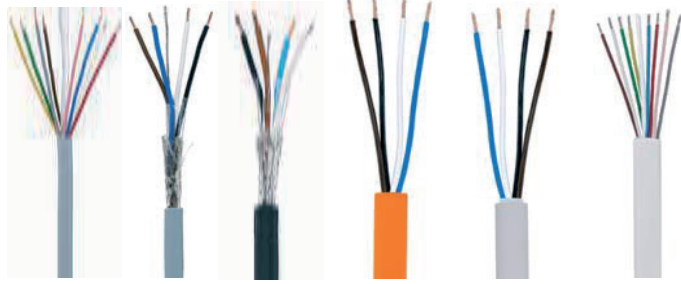
Product line	Description	Page
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Product line	Description	Page
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base line	M12x1 Sensor-/Actuator	Our standard connector line: high quality, reasonable prices. Available with two cable qualities PVC and PUR.	8 - 15
Automation Line	M12x1 M8x1 Ø8snap Sensor-/Actuator	Automation Line combines all specific requirements of automation industry: halogen-, PVC-, and silicone-free; drag-chain-adapted; weld-field immune; chemicals-, oil-, microbes-, and hydrolysis resistant; tight according to IP67, IP69K and UL approved. A comprehensive portfolio with: LED-versions; threaded grip for protective tubing; 360° shielding through reliable and patented two-shell shielding-concept (ESCHA 2SSK-technology). Available with three cable qualities: PVC; PUR; highly drag-chain adapted and torsion-resistant PURrobotic.	16 - 49 154 - 171
Quick-turn connection	M12x1 Sensor-/Actuator	Quick-turn connection sealed according to IP67, compatible with all M12x1 threads, safe locking, high cohesion.	62 - 67
with defined torque	M12x1 Sensor-/Actuator	M12x1 with integrated torque control. Tightened and sealed according to IP67 by hand when it rotates freely.	68 - 73
Food&Beverage hygienic	M12x1 M8x1 Sensor-/Actuator	New Food&Beverage line in hygienic design referring to EHEDG directives. FDA-compliant materials guarantee a high resistance to sour and alkaline cleaning and disinfectants agents. Dust- and waterproof, protected against water with high pressure and steam jet cleaning according to IP67 and IP69K. Available with two cable qualities PVC and TPE.	74 - 81 178 - 181
High temperature-proof	M12x1 M8x1 Sensor-/Actuator	High-temperature proof materials guarantee a reliable performance of this connector line in applications with a permanent operating temperature of -20°C to +150°C and a short term maximum operating temperature of +200°C.	84 - 88 182 - 185
POWER	M12x1 Power-connector	The M12-POWER product line facilitates a reliable power transmission via the standardized M12x1 interface (DIN EN 61076-2-111). S-coded products (630Vac) are adapted to alternating current applications including motors and frequency converters T-coded products (63Vdc) are adapted to direct current applications like fieldbus components, power supplies or small motors. Currents up to 12A can be transmitted.	90 - 97
Valve connectors	A, B/BI, C/CI	Valve-connector generation with minimum installation space and excellent LED visibility in all installation positions. Available in typical housing styles (A, B, BI, C, CI) and protection circuits. Comprehensive product program with cord sets, adapters and double-valve connectors.	188 - 199

Industrial Ethernet	M12x1 RJ45 M8x1	Connector line adapted to the specifications of the corresponding user organizations: 4-pole/D-coded as well as 8-pole/X-coded M12x1 connectivity solutions, flanges, interface- and RJ45 components enable to setup an Industrial Ethernet infrastructure. A 360°-shielding through the reliable and patented two-shell shielding-concept (ESCHA 2SSK-technology) ensures a safe and dependable data transmission (Cat5e, Cat6A).	98 - 123
PROFIBUS	M12x1	Connector line adapted for PROFIBUS/PROFINET user organization specifications: 5-pole/B-coded M12x1 connectivity solutions and flanges. New: shielded T- and Y-splitters!	136 - 139
CANopen DeviceNet	M12x1	5-pole/A-coded M12x1 connectivity solutions and flanges according to ODVA user organization. For setting up industrial CAN networks.	146 - 149
I/O-junction boxes	M12x1 M8x1 Ø8snap	M12x1-passive junctions with 4, 6, 8 ports and M23x1-cable outlet, top- or front connection. New M8x1/Ø8snap passive junctions: flexible fixing possibilities, compact housing style, 4, 8, 10 ports in 3- or 4-pole versions with M12x1-connection plug or cable outlet. New: logic-junctions facilitating 4xAND, 2x4xAND, 8xAND hardwired distributions. Sealed according to IP67.	216 - 224
Splitter	M12x1 M8x1 Ø8snap	Y- and T-splitters in different housing styles, optionally with LED-display or in shielded versions.	202 - 215
Accessories		Small items helping to simplify and organize your application: mounting clips and - sets, protective caps and - tubes, labels, torque-wrench set and more.	225 - 228
"rail approved"	M12x1 RJ45	New connectivity components provide for a safe and reliable data transmission in bus and train applications. Oriented to the typical requirements and standards of this industry, they perfectly adapt to the harsh mechanical and thermal stresses in transportation. Ask for our separate "rail approved" catalogue to get all information.	
Tailor-made solutions		Tailor-made solutions are our strength. Whether it comes to the modification of standard products with special B-side assemblies, lengths-, cable- as well as color-labeling variants or to the development of customer-specific connectors and housings – take advantage of our years of experience, a professional project management, our efficient tool shop as well as highly in-depth development and manufacturing.	



	PVC P00	PVC P01 [®]	PUR S370 [®] S370GY [®]	PUR S7400 [®] robotic	TPE S3930 F&B	PTFE S2430 HT	
Applications	Machinery-, equipment manufacturing	****	****	****	*	*	
	Automotive industry	**	**	****	****	**	
	Robotics	*	*	****	****	**	
	Food and beverage industry	****	****	*	*	**	
	Packaging and filling systems	****	****	*	*	**	
	Building installations	**	**	**	**	**	
	Wind power plants	**	**	****	****	**	****
Resistance	Flame-retardant	****	****	****	****	****	
	Oil resistance	**	**	****	****	**	****
	Weldfield immunity	*	*	****	****	*	**
	Drag-chain capability	*	*	****	****	**	**
	Torsion capability			***	****		
	Acids- and alkali resistance	*	*	*	*	**	****
	Seawater-resistant	**	**	**	**	****	****
	Ozone- and UV-resistance	*	*	****	****	**	****
	Hydrolysis strength	**	**	**	**	****	****
	Microbes strength	**	**	**	**	****	****
Features	Bending strength (repeated)	10xØ	10xØ	10xØ	10xØ	10xØ	
	Bending strength (single)	5xØ	5xØ	5xØ	5xØ	5xØ	
	Temperature range (repeated)	0°C...+80°C	0°C...+80°C	-30°C...+90°C	-30°C...+90°C	-25°C...+105°C	k. A.
	Temperature range (single)	-25°C...+80°C	-25°C...+80°C	-40°C...+90°C	-40°C...+90°C	-40°C...+105°C	-190°C...+260°C
Features	Shielding	optional	optional	optional	no	optional	optional
	ROHS	✓	✓	✓	✓	✓	✓
	UL and/or CSA		✓	✓	✓		
	GOST	✓	✓	✓	✓	✓	✓
	ECOLAB	✓				✓	
	ESCHA Product line	AL BL SV FB NM V	AL BL SV NM V	AL BL SV NM V	AL	FB	HT
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PUR S5015 S5025 POWER	PUR Cat5e S2171 [®] Profinet	PUR Cat5 S3400 [®] EtherCAT	PUR Cat7 S3500 [®] Ind. Ethernet	PUR Cat5e S3800 [®] Sercos [®]	PUR Cat6A S4030 [®] Ind. Ethernet	PUR Cat6A S4031 [®] Ind. Ethernet	PUR S1800 [®] PROFIBUS	PUR S2800 [®] DeviceNet
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7.5xØ 10xØ	7.5xØ	7.5xØ	10xØ	8xØ	15xØ	15xØ	10xØ	10xØ
4xØ	5xØ	4xØ	5xØ	4xØ	8xØ	8xØ	5xØ	5xØ
-40°C...+90°C	-40°C...+70°C	-40°C...+80°C	-40°C...+80°C	-40°C...+80°C	-30°C...+70°C	-30°C...+70°C	-25°C...+80°C	-25°C...+80°C
-50°C...+90°C					-40°C...+80°C	-40°C...+80°C	-50°C...+80°C	-50°C...+80°C
no	yes	yes	yes	yes	yes	yes	yes	yes
✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓
S5015: PS S5025: PT	IE	IE	IE	IE	IE	IE	PB	CD
253	245	246	247	248	249	250	251	252

All data in this matrix serve basic orientation. Our specialists will readily advise you on your specific application.