

ELECTRICAL CONNECTORS

for extreme applications

Watertight connectors

MIL connectors

Special cables

Fibre Optic systems

Cable harnesses

Housing systems



SYSTEMTECHNIK GmbH
Marine - Oceano Products - Military

Connectors for the naval industry

Extreme applications worldwide

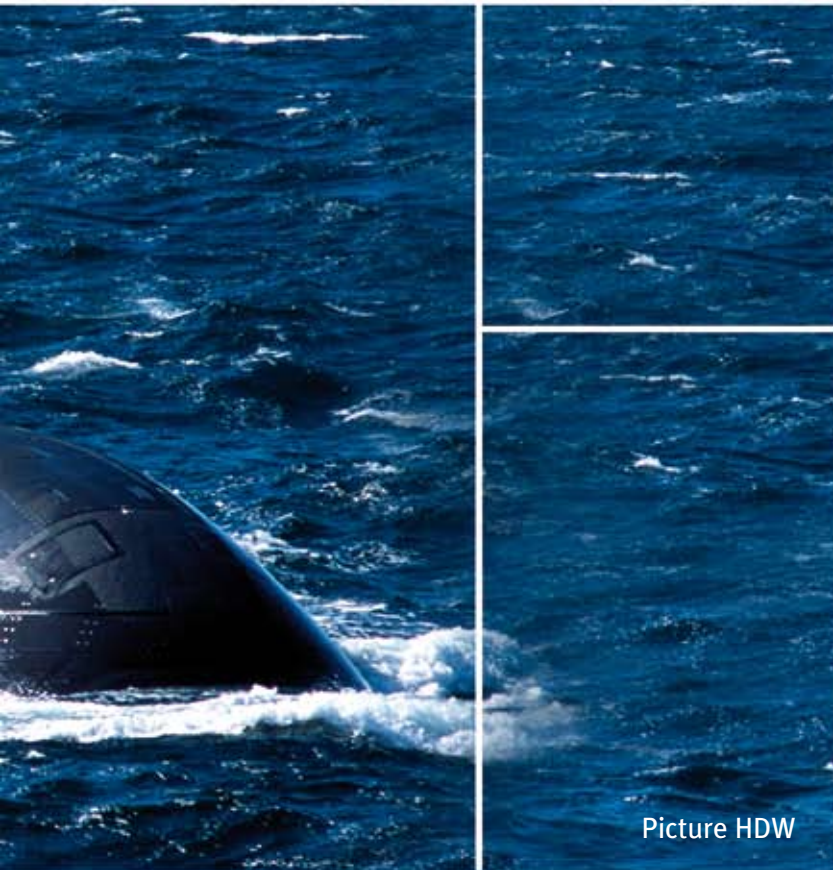


Involved in the following projects with CECC standard connectors:

FOCON
MASS SYSTEM
76 mm GUN
RAM
LINK 16
PARAFINDER



CECC approved



Picture HDW

Our suppliers:

- A.B. Connectors
- Amphenol
- Aero
- Compagnie Deutsch
- CONXALL
- ITT Cannon
- Cannon Veam
- GISMA
- Glenair
- Souriau
- Winchester

Connectors and system solutions in state-of-the-art naval projects, such as the submarine class U212, corvette K130 and all German frigates.

JOWO - Systemtechnik GmbH is listed within NATO as a supplier with the ID C6689.

Rapid service through final assembly in the connector lines MIL-C-38999 Series III.



Cable harnesses and special cables

On-site work anywhere in the world

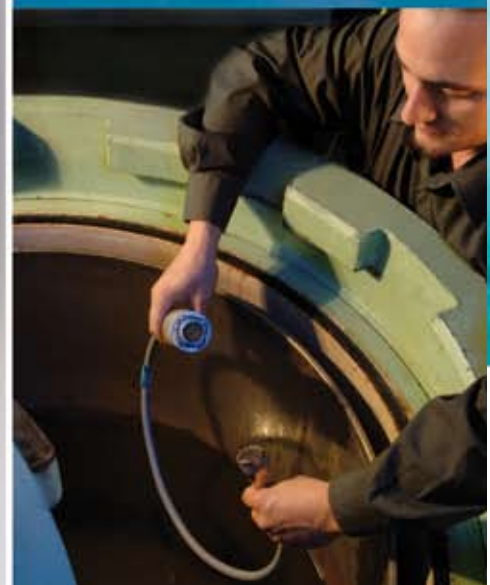
Our production provides cable harnesses for extreme applications.

Solutions according to customer requirements for the area of geophysics, shipbuilding, aviation and offshore engineering.

Cable connections for very deep water, also as hybrid versions with optical waveguide technology.

Cable drums and cable harnesses designed for explosive conditions according to ATEX 100a.

Pressure tanks for pressurised water tests up to 1000 bar.





Experienced experts accompany your projects

- Corrosion-resistant connectors down to 6000 m water depth
- Connectors which can be connected under water
- Hybrid connectors for Ethernet and optical waveguide technology
- Special solutions also in small order quantities
- Distributor boxes in different materials available
- Cable harnesses according to customer requirements and on-site assembly



Special systems for military use

Know-how & logistics



High level of expertise in the complex logistic areas of defence technology.

We offer you a huge range of products with direct contact to the largest manufacturers in the field of connectors and accessories.

Our product range also includes special products such as crimping tools – often available direct from the warehouse.

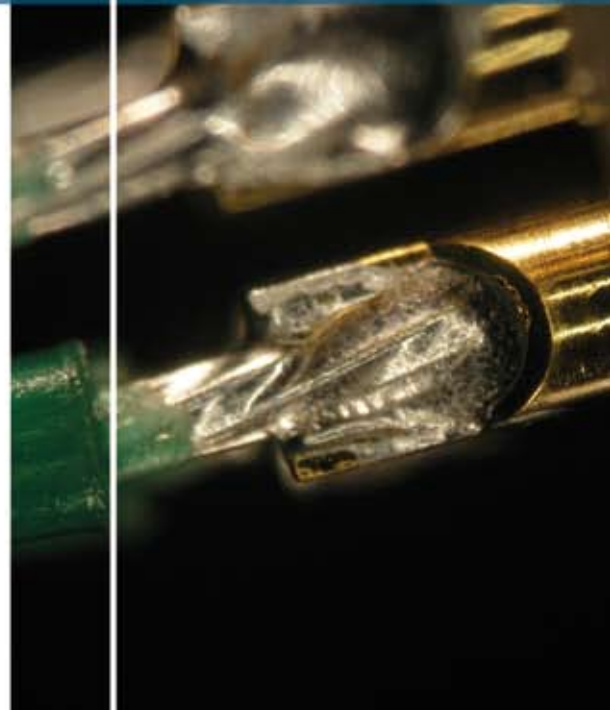
Cable harness production and special applications in accordance with MIL standard directives

Customer-specific solutions

- Appliance production and container construction in line with customer requirements
- Production of test cables also for optical waveguide technologies
- Wiring and crimping according to MIL directives
- Final testing and 100% checks with test certificates

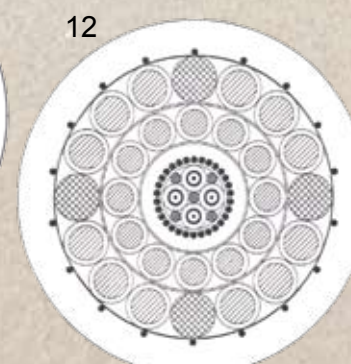
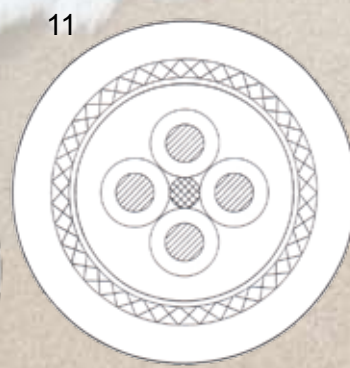
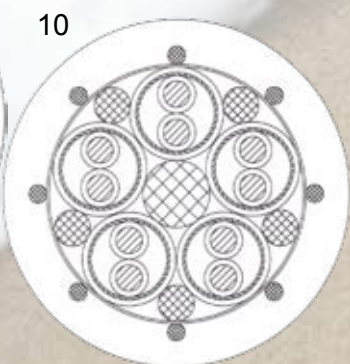
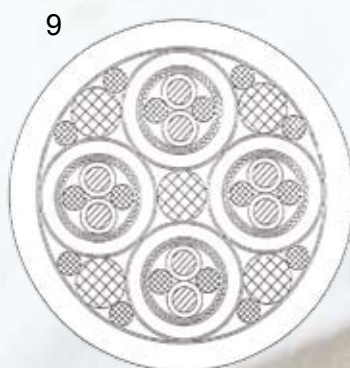
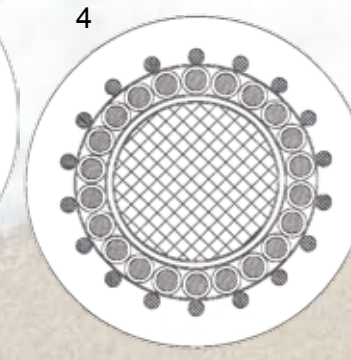
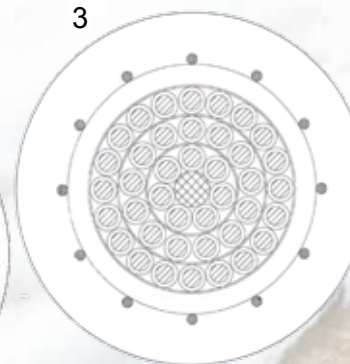
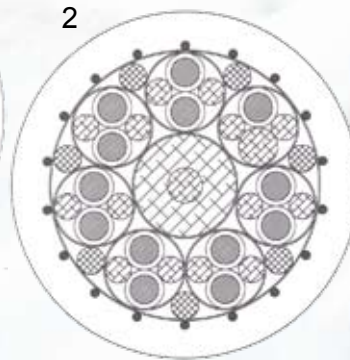
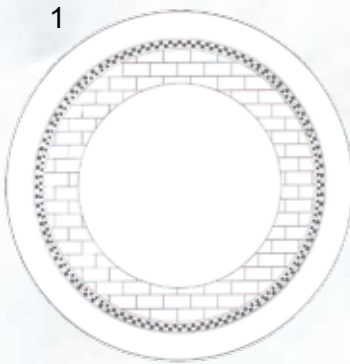


Soldering as per IPC-A610 directives



Overview of JOWO - Systemtechnik spe

Order number	JW-S7-9275	JW-S7-6899	JW-S7-12233	JW-S7-12292	JW-S7-5512	JW-S7-6935	JW-S7-5953
Application	Elucon Connector	Series TP	Seawater	Seawater	Seawater	Marine	Marine
Technical setup	2 x 0,1 mm, shielded	6 x 2 x 1,5 mm ² + 1 x 1,5 mm ² , unshielded	40 x 0,5 mm ² , unshielded, seawater tight	22 x 2 x 0,75 mm ² , unshielded, seawater tight, Kevlar in the venter	4 x 0,5 mm ² , shielded	6 x 1,5 mm ² + 1 x Koax 50 Ohm, RG 58, shielded	1 x 2 x 0,38 mm ² + 1 x 2 x 0,38 mm ² , shielded
Outer jacket material	PUR	PUR	TPU	TPU	PUR	PUR	PUR
Conductor insulation material	TPE	TPE	TPE	PUR	TPE	TPE	TPE
Outer jacket color	orange	black	black	black	black	black	black halogen-free
Outer diameter	15,2 mm	20,0 mm	17,0 mm	17,4 mm	6,2 mm	12,5 mm	9,2 mm
Approval	customer	customer	customer	customer	customer	customer	customer
Temperature	"-35°C to +50°C	"-50°C to +125°C	"-40°C to +80°C	"-40°C to +80°C	"-50°C to +125°C	"-20°C to +70°C	"-50°C to +125°C
Operating voltage	450 Volt	600 Volt	600 Volt	600 Volt	600 Volt	600 Volt	450 Volt
Tensile load	10 bar Air	2000 Newton tenside load	Kevlar in the jacket	7500 Newton, Kevlar in the jacket	halogenfree	6000 Newton, Kevlar in the jacket	Optionally with Kevlar
Sectional drawing No.	1	2	3	4	5	6	7

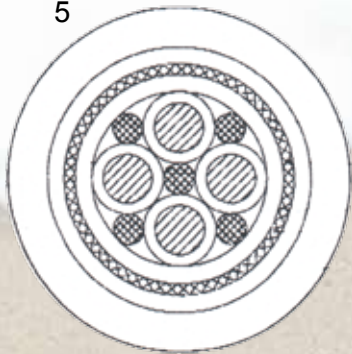


Special cables

short lenght are possible

JW-S7-8501	JW-S7-10269	JW-S7-5841	JW-S7-9828	JW-S7-11859	JW-S7-5163	JW-S7-6935	JW-S7-11887
Offshore	Gas tanker	Marine	Marine	Seawater 20 bar	Seawater	Marine	Marine
12 x 1,0 mm ² , shielded	4 x 2 x 0,5 mm ² , shielded	5 x 0,5 mm ² , shielded, Kevlar in the jacket	4 x 0,67 mm ² , shielded	12 x 4,0 mm ² + 12 x 2,5 mm ² + 4 x LWL Hybridcable, unshielded, water-pressure tight 20 bar	4 x 0,5 mm ² , shielded	6 x 1,0 mm ² + 1 x Koax 50 Ohm, Hybridcable, unshielded, flame repellent, oil-resistant	2 x 0,034 mm ² , shielded
PUR	PUR	PUR	PUR	PUR	PUR	PUR	PUR
TPE	TPE	TPE	PE	TPE (LWL PTFE)	TPE	TPE	TPE
black	blue	black	black	black	orange	black	black
11,4 m	12,5 mm	11,8 mm	9,5 mm	27,5 mm	6,2 mm	12,5 mm	2,0 mm
customer	GL	customer	customer	customer	customer	customer	customer
"-50°C to +90°C	"-40°C to +90°C	"-50°C to +125°C	"-30°C to +70°C	"-28°C to +65°C	"-50°C to +125°C	"-50°C to +125°C	"-50°C to +90°C
600 Volt	600 Volt	600 Volt	450 Volt	600 Volt	600 Volt	600 Volt	200 Volt
		Kevlar strain relief	2200 Newton, strain relief	2000 Newton, strain relief		1900 Newton	
8	9	10	11	12	13	14	15

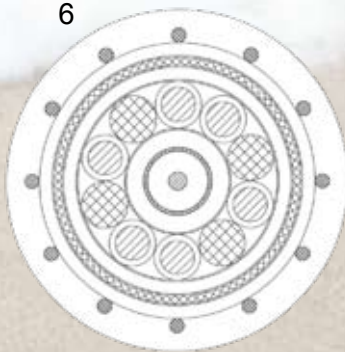
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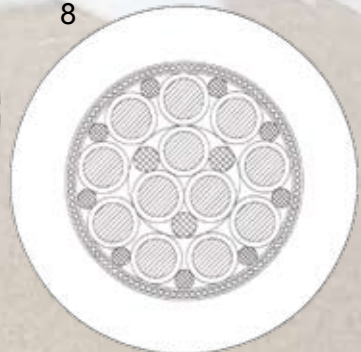
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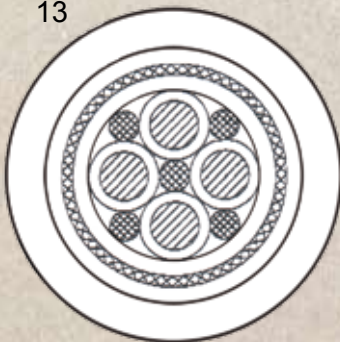
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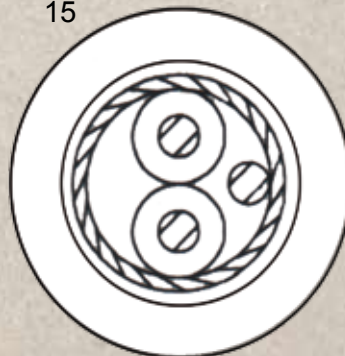
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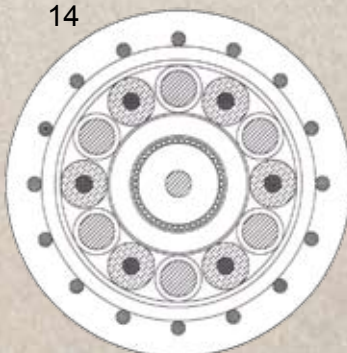
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Systems and connectors for oceanic applications

Can be plugged in under water

Series M

- Customer requirements in new layout and small quantities possible
- High-current and high-voltage connectors
- Incorporation of Kevlar or steel jackets in the end housing possible
- Many products stocked in the Delmenhorst warehouse as standard



Series 8811



Series 8810

- Applications down to water depths of 3000 m
- Special production down to water depths of 6000 m
- Underwater connectors which can be plugged in underwater
- Hybrid versions for optical waveguides and Cu possible
- Titanium, bronze or stainless steel housing

Special connectors for explosive areas

Safety for your connection



Special connectors according to customer requirements, also in small acceptance quantities.



Series 8811

ATEX-tested and watertight connectors for applications under water or in explosive areas.

Available in the materials:

Marine bronze
Brass
Stainless steel



in line with ATEX 100a



JOWO - Systemtechnik GmbH listed in NATO is a distributor for several world-renowned connector manufacturers. The close links to suppliers offer customers the latest manufacturer information combined with a good support and advice service.

We are always pleased to provide solutions in the area of connector assembly for individual cables and cable harnesses.

On the request of the customer, this work can also be carried out directly on site by a trained team. Numerous major projects abroad, such as White Rose and Terra Nova in Canada, have resulted in a high level of acceptance by customers.

A pressure test up to 1000 bar can also be carried out for cabling water pressure-tight connectors at JOWO - Systemtechnik GmbH.

Besides watertight connectors, the product



lines include the manufacture of special connectors for explosion protection in accordance with ATEX 100a.

Advice as well as the development and design of connectors and equipment systems has been an integral element of our successful product range for over 10 years.

The extensive stock in store is continuously adapted to the orders and hence offers our customers rapid access, most recently connectors complying with the aviation standards etc. for Airbus.

We shall be delighted to offer solutions for your wishes and special requirements.

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