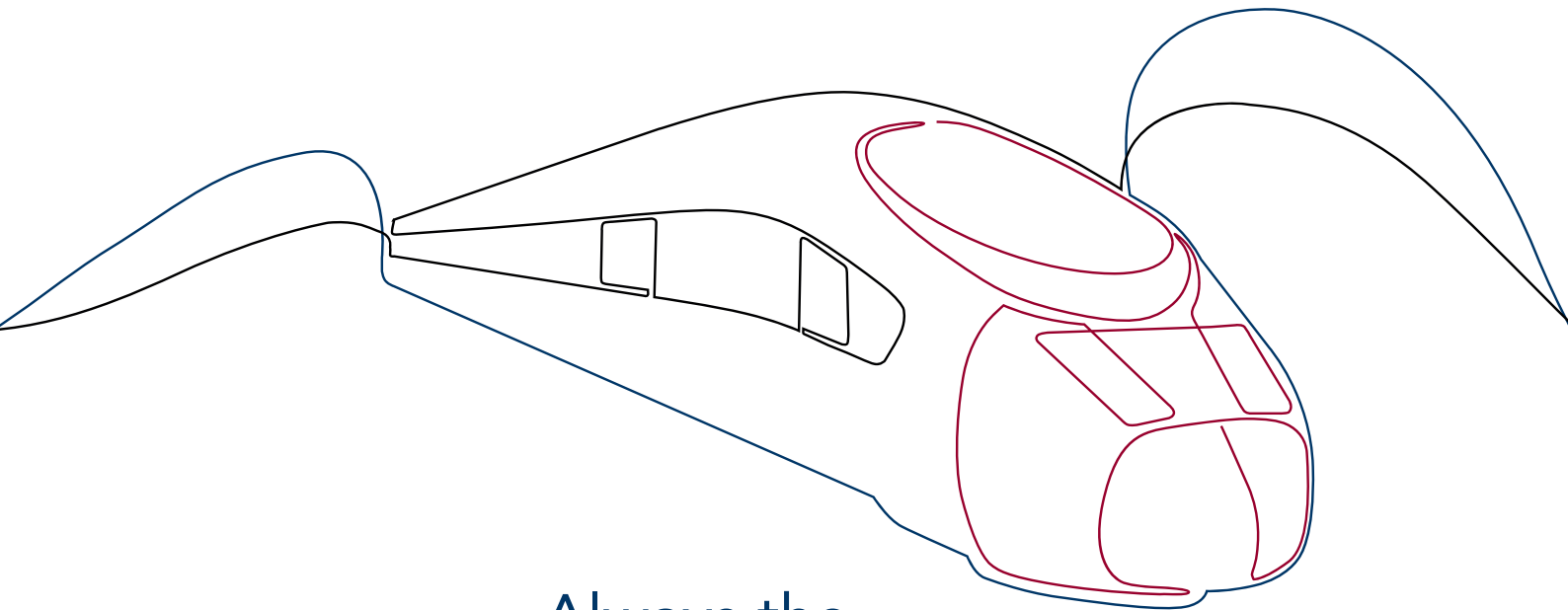


MANUAL COUPLERS



Always the
right connection



Quality Standard: All products are subject to an extensive quality test in the final inspection phase. Of course, we are certified according to current industry-specific standards.

MANUAL COUPLERS HAKU 0-3



PRODUCT INFO

The manual connectors can be produced and used as control current couplers, power current couplers or as a combination of both types of couplers. Due to their robust design, our products offer a long service life with low maintenance requirements.

The respective variants are equipped individually according to the customer's wishes and requirements.

APPLICATION AREAS

- Individually applicable in the railroad, vehicle, mechanical engineering, agricultural and industrial sectors
- For stinger systems in the maintenance area
- For use as control current as well as heavy current couplers
- For level monitoring
- Individually applicable – depending on the area of application, adaptations can be made on customer request.

FEATURES

- Faultless power transmission, adapted to customer-specific operating conditions
- Protection of contacts and connection parts against dust and moisture even in harsh environmental conditions
- Depending on the version, with safety lock to prevent unintentional disconnection and release
- Lockable cover for the protection against misuse

MANUAL COUPLERS TECHNICAL DATA

The design to be selected results from the respective customer requirements. The weights vary depending on the equipment. The weights given here represent averaged values.

The proven quality and reliability of the manual connectors listed below are based on numerous patents, which are relied on in the cooperation with our customers.

SPECIFICATION DESCRIPTION		HAKU 0	HAKU 1	HAKU 2	HAKU 3
Standards	Protection class (EN 60529)	IP54 (coupled)	IP56* (coupled)	IP54* (coupled)	IP67* (coupled)
	Contact block design according to EN 50124-1	-	Yes	Yes	Yes
Connection type	Number of poles	2 to 3	1 to 15	1 to 44	1 to 111
	Connection of contacts	Screw	Crimp/Screw	Crimp/Screw	Crimp/Screw
Electrical Characteristics	Rated voltage	42 V	400 V	1500 V	3000 V
	Rated current	10 A	200 A	500 A	500 A
Mechanical Characteristics	Safety lock	-	-	Yes	Yes
	Operating conditions	Temperature range	-30°C ... +90°C	-30°C ... +90°C	-30°C ... +90°C
Materials	Housing plug	Cast aluminum	Cast aluminum	Cast aluminum	Cast aluminum
	Housing receptacle	Cast aluminum	Cast aluminum	Cast aluminum	Cast aluminum
	Contacts	Copper or brass alloy	Copper or brass alloy	Copper or brass alloy	Copper or brass alloy
Weights	Plug (without cable)	approx. 0.3 kg	approx. 1.5 kg	approx. 2.6 kg	approx. 7.0 kg
	Receptacle	approx. 0.7 kg	approx. 2.0 kg	approx. 3.3 kg	approx. 5.7 kg

MANUAL COUPLERS HAKU 0 & HAKU 1

Haku 0

Product info

The 2- or 3-pole plug is used for level monitoring, e.g. for diesel-driven vehicles (DMU) or diesel locomotive or also for locomotive lighting.

Receptacle and plug can be equipped with male or female contacts depending on the application. An individual color coating is possible on request.



Haku 1

Product info

The size 1 manual connector can be used both as a control current as well as a power current coupler. A locking of the connector is realized with the receptacle cover.

For example, we can offer you this type of manual connectors as follows:

- 15 control current contacts (25 A, 110 V)
- 2 high power contacts (200 A, 400 V)

The equipment of this type of connector is carried out individually according to the customer's wishes and requirements. An individual color coating is possible on request.



MANUAL CONNECTORS HAKU 2 & HAKU 3

Haku 2

Product info

This design can be used as a high power and/or control current coupler. A safety lock serves to protect against unintentional disconnection of the plug. Depending on the requirements, 1 to 44 contacts can be integrated. For example, 3 high power contacts (200 A, 380 V) or 2 high power contacts (100 A, 200 V) in combination with 9 control contacts.

The assembly of this connector is carried out individually according to the customer's wishes and requirements. An individual color coating is available on request.



Haku 3

Product info

This design was developed for particularly high currents or a large number of control cables. The plug is locked in the receptacle by means of a coupling bracket. A safety lock serves to protect against unintentional disconnection of the plug. The plug can be equipped with up to 111 contacts. For example, as a three-phase coupler with 5 contacts (500 A, AC 440 V) and 8 additional control current contacts (25 A, DC 72 V).

The equipment of this type of construction is carried out individually according to the customer's wishes and requirements. An individual color coating is possible on request.





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