

# For your safety

DIN Europe Series connectors are in accordance with the following Directives and Norms:

2006/42/CE	Machine Directive
2014/35/UE	Low Voltage
2011/65/UE	RoHS Directive
1907/2006	REACH Rules
DIN VDE 0623-589	Norm defining unified dimensions
EN 1175-1	Standardized European Norm

They are warranted by our CE Certificate, available on request, where it's declared that the product is manufactured by Ravioli according with precise and acknowledged Safety Norms, and with the quality standard stated in its Quality Management System UNI EN ISO9001-2008.



## For people and environment respect

Ravioli products are manufactured in the respect of people and environment, according to the standards which are stated in our Code of Ethical Behaviour. They are realized to strengthen workers' safety and they are free from damaging substances to the environment.

## Assembly and maintenance instructions

The installation of twin connectors Europe Series can only be performed by trained personnel following the current safety norms. Before wiring, it's compulsory turn out the voltage and have the machine in a condition of safety.

**ATTENTION:** Contact with the conductors can result in serious injury from electrical shock and electrocution.

For correct installation, environment operative temperature must be included between -20°C and +90°C.

Connectors are not suitable for any applications in potentially explosive areas.

Protect yourself suitably against eventual acid.

Do not use any oil, grease or solvent.

Connectors are lubricated with a special grease; we recommend to use no different grease.

Connections must be duly carried out, according with the machine electrical scheme.

After installation, it is obligatory to verify that the coding pin is suitable for the battery you have to use, and that the voltage indicated on the pin is the same established for the machine and for the battery charger; it is obligatory to verify the correct functioning of the connector, the machine and the battery charger.

Assembly instructions:

- Strip wires 20 mm. for main contacts ( 6 ) and 10 mm. for auxiliary contacts ( 2 and/or 3 ).
- Insert wire into contact crimp barrel till wire bottoms in barrel.
- Crimp through suitable tool. For information about crimping please contact our company.
- If you are using air system, connect the air tube into the fitting for air in-let ( 4 ).
- Insert main contacts ( 6 ) into the contacts keeper ( 10 ), using caution to respect the polarity indicated on the housing. Insert primary auxiliary contacts ( 2 ) into proper air adapter, having the two halves closed, and position them in their proper keeper ( 10 ). Insert the secondary auxiliary contacts ( 3 ) into their keeper ( 10 ). If using the optional air system, the air tube ( 4 ) must be inserted into its keeper ( 10 ) in place of the primary auxiliary contacts ( 2 ); in this case only secondary auxiliary contacts ( 3 ) will be used; they must be mounted before positioning the air tube ( 4 ). Secure all the contacts and the optional air tube ( 4 ) into the housing ( 10 ) by using the clamping plate ( 9 ) in the keeper in one side of the housing ( 10 ). Verify that all main and auxiliary contacts and the optional air tube are steadily locked by the clamping plate ( 9 ); secure the clamping plate ( 9 ) using the provided screws. For black, shock resistant models, tighten the screws with torque 1Nm. For grey, acid-proof models, tighten them with torque 0,6 Nm.
- Mount the cable clamp (8), which is composed by two halves, by tightening the two provided screws with torque 1Nm for the black, shock resistant models, or with torque 0,6 Nm for the grey, acid-proof models. If auxiliary contacts ( 2 and/or 3 ) are used, replace one half of the cable clamp ( 8 ) with the half suitable for the plastic screw for auxiliary cables clamping, which is properly supplied in the bag containing the auxiliary contacts.
- Verify that the coding pin ( 7 ) is correct according to the type of battery you will use (wet, dry or universal). Insert the coding pin ( 7 ) observing that the proper battery voltage is displayed in the housing ( 10 ) window.
- Mount the optional handle ( 1 ) with torque between 1,20 Nm and 1,40 Nm.

Maintenance:

- Verify that connectors match correctly.
- Verify that connectors are entire and that they do not present any faulty parts.
- Should there be any faulty parts, replace them.
- Verify that main contacts cables are locked by the cable clamp.

**RAVIOLI S.p.a. declines any responsibility for damages deriving from incorrect installation or improper use of the product.**

*All information described in this document are confidential and cannot be handled nor modified without Ravioli S.p.a. authorization.  
All the pictures which are shown in this catalogue are illustrative and the data can be modified without notice; therefore they cannot be used in terms of contract.*

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