



SHIPBUILDING

CONNECTING TECHNOLOGY FOR FLEXIBLE ALUMINUM CABLES



In partnership with







Connecting Solutions

A young dynamic company

Founded in 1981, MECATRACTION quickly grew both in the domestic and export markets. We are based in Pompadour, France, in premises of more than 9000 m². MECATRACTION designs, develops and produces a complete range of components for industrial electrical connections. Our subsidiary CEGERS TOOLS adds an extensive range of tools and accessories.

MECATRACTION is a subsidiary of the SICAME Group

The SICAME Group is specialized in accessories for the transport and the transmission of electrical power.



Your best partner in the high-tech sector

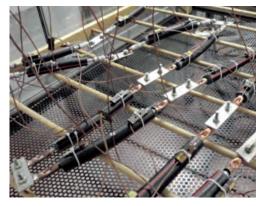
MECATRACTION has forged a position for itself in many sectors of industry that demand know-how, precision and efficiency through the quality of our products and our capacity for innovation. These sectors include the rail, automotive, aeronautic, space, nuclear, renewable energies, shipbuilding and defence industries.

High means of production

The manufacturing of components for electrical connections requires a production apparatus both modern and extremely flexible.

Research & Development

Our Research & Development department is composed of multi-disciplinary teams who combine creativity and reactivity. Our knowledge of the requirements of various fields of activity such as railway, aeronautics, automotive or renewable energies enables us to offer original and strong solu-





tions allowing to anticipate. Our research teams can rely on the capacity of our laboratory to investigate new technical solutions helping us in anticipating the needs of our customers. Thus, our connections meet the permanent evolutions of the conductors in the most severe applications.

A crimping specialist

MECATRACTION has acquired a great experience in crimping techniques in order to obtain connections of high characteristics thanks to different associations.

APPROVED CERTIFICATES

MECATRACTION has obtained the certificate of authorization for a connecting system using DBI lugs established on 2018-04-24.



ment company. DNV GL provides classification, technical assurance, software and independent expert advisory services to the maritime, oil & gas, power and renewables industries. DNV GL also provide certification.

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials. The main elements of the assessment are: Inspection on factory samples, selected at random from the production line (where practicable) Results from Routine Tests (R7) checked (if not available tests according to RT shall be carried out) Review of type approval documentation

- Review of type approval outsilentedum. Review of possible change in design, materials and performance Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

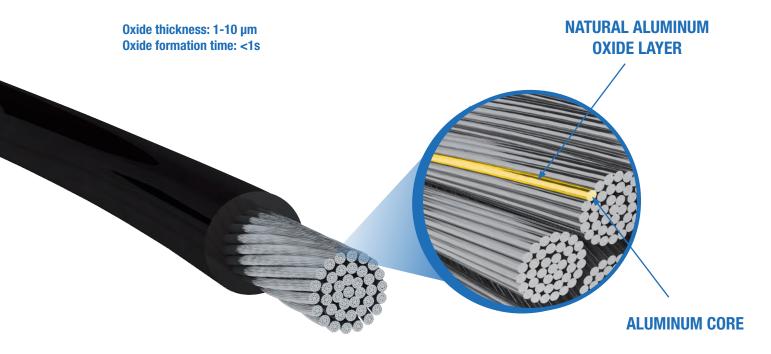
Periodical assessment

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate. END OF CERTIFICATE

www.dnvgl.com

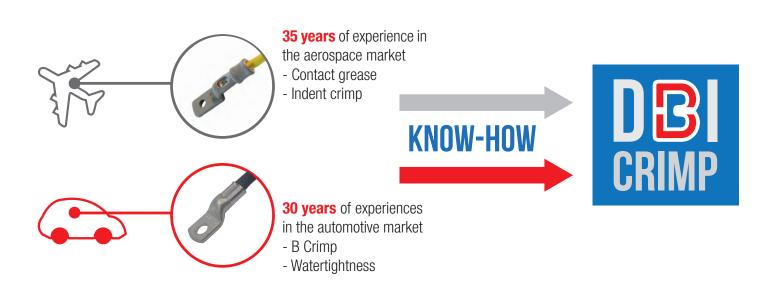
THE SPECIFICITY OF FLEXIBLE CABLES IN ALUMINUM

The crimping of aluminum cables is made difficult by the very rapid formation of an insulating oxide layer around each strand of the cable that does not allow good conductivity.



It is therefore necessary to break this layer of oxide to allow reliable electrical contact.

CRIMPING KNOW-HOW



A PATENTED SOLUTION

The DBI solution combines a special « DBI terminal » associated to an innovative « DBI crimp »:

- « DBI Terminal »: a copper tubular lug equipped with an interface grid and contact grease.
- « DBI crimp »: includes a deep indent shape and two B shapes (one on each side), acting in single crimping step.



- « DBI crimp » creates elongation of the conductor inducing a high deformation of the strands.
- « DBI crimp » breaks alumina layer and creates a reliable electrical contact with durability ensured by the grease.



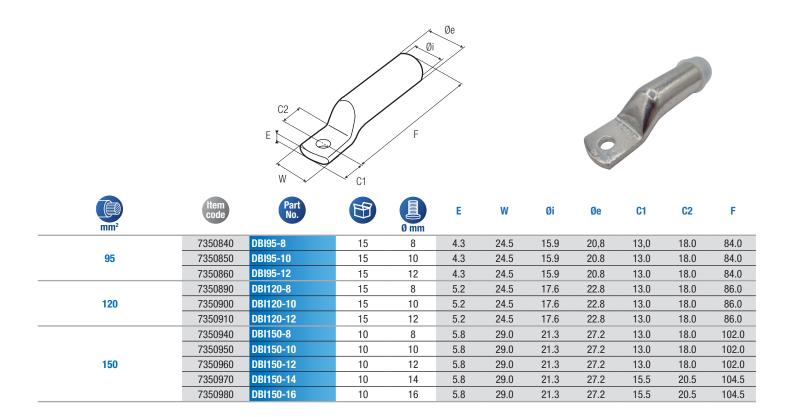


CONVENTIONAL CRIMPING PROCESS





DBI TERMINAL RANGE



HEAT SHRINK TUBING

Suitable for DBI 95, 120 and 150 terminals.



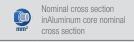


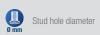
CRIMPING DIES SET

Compatible with SH450J hydraulic compression head.

Item	Part No.		TERMINAL TYPE
7510629	H45DBI95-520	1	DBI95
7510630	H45DBI120-585	1	DBI120
7510631	H45DBI150-715	1	DBI150









CRIMPING TOOLING

Hydraulic compression head

Single action.

Output force: 540 kN under 850 bar

■ Size: 260 x 135 x 115 mm

■ Weight: 9.8 kg







SH450 connectable hydraulic compression head kit

Kit composition:

■ Hydraulic compression head

■ Metallic carry case

PN: SH450J

PN: CMSH450





Electro-hydraulic pump

Single action. Wire remote control. Operating energy: Li-lon battery or 110-230 VAC adapter EU plug (included).

■ Nominal output pressure: 850 bar

■ Flow rate: 0.7-1 L/minute

Oil tank: 0.65 L

■ Size: h285 x 255 x 185 mm

■ Weight: 6.5 kg







Hydraulic hose with push-pull couplers CEJN115







SVEPT20-520 portable and compact electro-hydraulic pump kit

Kit composition:

■ Electro-hydraulic pump

■ Metallic carry case

Hydraulic hose

PN: SVEPT20-520J

PN: CMSPT20 PN: SF30J





SVEPT20-520JCM



Nominal cross section inAluminum core nominal cross section



Stud hole diameter



Packaging

Unless otherwise stated, all dimensions are in millimeters

APPLICATIONS





OFFSHORE VESSEL SUPPORT



DBI TECHNOLOGY IS PRESENT ON ENERGY OBSERVER





