

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Termination and Joint for Cable**

with type designation(s)

**DBI 95 - 12 Termination for aluminum power cable,
DBI 120 - 12 Termination for aluminum power cable,
DBI 150 - 12 Termination for aluminum power cable**

Issued to

**AMO Specialkabel AB
ALSTERMO, Sweden**

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft**Application :****Special termination for Aluminum power cables.****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**Issued at **Høvik** on **2018-04-24**This Certificate is valid until **2023-04-23**.DNV GL local station: **Malmö**for **DNV GL**Approval Engineer: **Ivar Bull**

**Andreas Kristoffersen
Head of Section**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Name and place of manufacturer

DNVGL Id: 10604393

Product description

Cable lugs made of tinned copper specially designed for use with aluminium conductors.
Lugs contain a grid and are supplied with contact grease.

Approval covers cross sections 95mm², 120mm² and 150mm².

Application/Limitation

Cable lugs designed for power cable AXZ-HF with aluminium conductors, ref. DNV GL TA certificate TAE00002GK.

Terminations to be installed according to manufacturers instructions.
Press to be performed with approved press tool and correct die size.
Heat shrink tubing with melt glue shall cover cable sheath and pressed termination to prevent ingress of moisture.

Type Approval documentation

Tests carried out

	Release	General description	Limitation
DNVGL-CP-0409	2017-10	Terminal lugs for LV power cables with aluminum conductors	
IEC 61238-1	2003-05	Compression and mechanical connectors for power cables for rated voltages up to 30kV (Um=36kV). Part 1: Test methods and requirements	Short circuit test Class A
DNVGL-CG-0339	2016-11	Environmental test specification for electrical, electronic and programmable equipment and systems	Relevant part as per CP-0409 table 1

Marking of product

Type designation and cross sectional area.
Die size to be embossed on lug during press.

Periodical assessment

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 (RT) checked (if not available tests according to RT shall be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

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