DNV·GL

Certificate No:
TAE00002NU

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Cable Lugs and Termination

with type designation(s)
L-Series

Issued to
Gustav Klauke GmbH
Remscheid, Germany

is found to comply with
DNV GL rules for classification – Ships, offshore units, and high speed and light craft

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Issued at **Hamburg** on **2018-02-22**
This Certificate is valid until **2023-02-21**.
DNV GL local station: **Essen**

for **DNV GL**

Approval Engineer: **Harald Amberger**

Arne Schaarmann
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.

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Product description

The following terminal connectors "L" series are coverd by this certificate

1.) Straight, Cat. Nos. L0.75, L1.5, L2.5, L4, L6, L10, L16, L25, L35, L50, L70, L95, L120, L150, L185, L240, L300, L400, L500 or L630, followed by a 1 or 2-digit number, and by Suffix MS, may be followed by Suffix bk.

2.) Angled-45 degree, Cat. Nos. L6, L10, L16, L25, L35, L50, L70, L95, L120, L150, L185, L240, L300, L400, followed by a /1 or /2- digit number, and by Suffix -45, may be followed by Suffix bk.

3.) Angled-90 degree, Cat. Nos. L6, L10, L16, L25, L35, L50, L70, L95, L120, L150, L185, L240, L300, L400, followed by a /1 or /2- digit number, and by Suffix -90, may be followed by Suffix bk.

4.) Pressure cable connectors, "L" Series, Butt-Type, Cat. Nos. LV0.75, LV1.5, LV2.5, LV4, LV6, LV10, LV16, LV25, LV35, LV50, LV70, LV95, LV120, LV150, LV185, LV240, LV300, LV400, LV500, or LV630, may be followed by Suffix bk.

5.) Cross-connectors, Type KVL1.5, KVL2.5, KVL4, KVL6, KVL10, KVL16, KVL25, KVL35, KVL50, KVL70, KVL95, KVL120, KVL150, KVL185, or KVL240, may be followed by Suffix bk.

6.) T-Connectors, Type TVL1.5, TVL2.5, TVL4, TVL6, TVL10, TVL16, TVL25, TVL35, TVL50, TVL70, TVL95, TVL120, TVL150, TVL185, or TVL240, may be followed by Suffix bk

Application/Limitation

Rated voltage; depending on lug type and application up to 36kV.

Cable lugs for installation inside switchboards / enclosures onboard ships, mobile and stationary offshore units.

To be used only with Klauke crimping dies as stated in the catalogue.

Operation instruction of the manufacturer has to be observed.

Actual cable cross section has to be considered for the selection of cable lugs.

Type Approval documentation

Tests carried out

IEC 61238-1:2003-05, Class A, DIN EN 61238-1:2004-03, Class A, Vibration

Marking of product

Manufacturer’s Logo, Conductor size of cable, Stud hole size

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 to 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