



Type Approval Certificate

Germanischer Lloyd

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. **5973913 HH**

Company **Gustav Klauke GmbH
Auf dem Knapp 46
42855 Remscheid, GERMANY**

Product Description **Pressure terminal connectors**

Type **"R" series lugs and connectors
"L" series lugs and connectors**

Environmental Category **A+H**

Technical Data / **Cross section : 1,5mm². up to 400mm² respective 630mm² (L-series)**

Range of Application

Basic material: copper (Cu-HCP)

Voltage: depending on lug type and application up to 36 kV

**The use of the correct crimping and cutting tools of the manufacturer is mandatory.
The screw connection has to be carried out the correct torque.**

Application:

**Cable lugs for installation inside switchboard/enclosures
onboards ships and fixed / mobile offshore installations.**

Test Standard **GL Guidelines for the Performance of Type Approvals Chapter 2, Edition 2012
IEC 61238-1:2003/2004; DIN EN 61373:1999; EN 61400-1:2011**

Documents **RWE test reports 07_157-2L:2012; 07_157-2R:2012; 07_157-10:2012;
Brunel reports P12-9580: 2012; P06-0731:2008
Klauke catalogue 2012/2013**

Remarks **Operation instruction of the manufacturer has to be observed. Actual cable cross
section has to be considered for the selection of cable lugs.**

Valid until **2018-01-15**

Page **1 of 3**

Type Approval Symbol



File No. **I.O.04**

Hamburg, 2013-01-16

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This certificate is issued on the basis of "Regulations for the Performance of Type Tests, Part 0, Procedure".



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The following terminal connectors "R" Series are covered by this certificate:

- 1.) Straight, Cat. Nos. 91R, 92R, 93R, 94R, 95R followed by a 1-digit number, may be followed by Suffix bk.
- 2.) Straight, Cat. Nos. 1R, 2R, 3R, 4R, 5R, 6R, 7R, 8R, 9R, 10R, 11R, 12R, 13R, or 14R, followed by /1 or 2-digit number, may be followed by Suffix MS and/or by Suffix bk, Ni, Pb.
- 3.) Angled-45 degree, Cat. Nos. 41R, 42R, 43R, 44R, 45R, 46R, 47R, 48R, 49R, 50R, 51R, 52R, 53R, or 54R, followed by a /1 or /2-digit number, by Suffix -45, may be followed by Suffix MS and/or by Suffix bk, Ni, Pb.
- 4.) Angled-90 degree, Cat. Nos. 41R, 42R, 43R, 44R, 45R, 46R, 47R, 48R, 49R, 50R, 51R, 52R, 53R or 54R, followed by a /1 or /2-digit number, may be followed by Suffix MS and/or by Suffix bk, Ni, Pb.
- 5.) Narrow Palm Type, Cat. Nos. 5SG, 6SG, 7SG, 8SG, 9SG, 10SG, 11SG, 12SG, or 13SG, followed by 1 or 2-digit number, may be followed by Suffix bk, Ni.
- 6.) Fork Type, Cat. Nos. 91C, 92C, 93C, 94C, 95C, 96C, or 97C, followed by a 1-digit number, may be followed by Suffix bk.
- 7.) Butt-Type, Cat. Nos. 17R, 18R, 19R, 20R, 21R, 22R, 23R, 24R, 25R, 26R, 27R, 28R, 29R, 30R, 31R, 32R, 33R, or 34R, may be followed by Suffix bk, Ni.
- 8.) Cross-Connectors, Type KV1.5, KV2.5, KV4, KV6, KV10, KV16, KV25, KV35, KV50, KV70, KV95, KV120, KV150, KV185, or KV240, may be followed by Suffix bk, Ni, Pb.
- 9.) T-Connectors, Type TV1.5, TV2.5, TV4, TV6, TV10, TV16, TV25, TV35, TV50, TV70, TV95, TV120, TV150, TV185, or TV240, may be followed by Suffix bk, Ni, Pb

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Page **2 of 3**

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The following terminal connectors "L" series are covered 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

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Page **3 of 3**

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