

# TYPE APPROVAL CERTIFICATE

DNV·GL

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

Certificate No.	<b>45 419 - 16 HH</b>
Company	<b>Reichle &amp; De-Massari AG</b> <b>Binzstrasse 32</b> <b>8620 Wetzikon, SWITZERLAND</b>
Product Description	<b>Connection System RJ45 Cat. 6A consisting of Cat.6A EL Connection Module and Patch Cords Cat. 6A</b>
Type	<b>Connection Module Cat.6A EL</b> <b>Patch Cord Cat. 6A, U/UTP and S/FTP</b>
Environmental Category	<b>None</b>
Technical Data / Range of Application	<b>Mechanical data:</b> <b>Pole count:</b> 8 <b>Operating temperature range:</b> -10°C to 60°C <b>Humidity:</b> 95% (non-condensing) <b>Contact material:</b> CuSn <b>Contact surface:</b> > 0.76 µm gold over > 1.2 µm nickel <b>Housing material:</b> Polycarbonate (UL-94-V0) unshielded / die-cast (shielded) <b>IDC contact material:</b> CuSn, tin-plated <b>Electrical data:</b> <b>Contacts:</b> 1000 V DC or AC peak 1500 V DC <b>Contact to shield:</b> 1500 V DC <b>Insulation resistance:</b> > 500 MΩ (100 V DC) <b>Contact resistance:</b> < 20 mΩ <b>I/O resistance:</b> < 200 mΩ <b>I/O resistance unbalance:</b> < 50 mΩ <b>Current carrying capacity:</b> 1 Amp@60°C
Test Standard	<b>ISO/TEC 11801:2010; EN 50173-1:2011; IEC 60603-7-51:2010; EN 50288-10-1:2012; IEC 60332-1-2:2004</b>
Documents	<b>Test report : TL 020.392, dated 30.07.2015;</b> <b>No. NC 05906 + NC 05907, dated 06-09-2016;</b> <b>No. 1143742, dated 2014.12.22; No. 1143738, dated 2015.01.06;</b> <b>No. 1143740, dated 2014.09.02; No. 1143741, dated 2014.08.21;</b> <b>No. 1154109, dated 2015.08.13</b>
Remarks	<b>This certificate is issued on the basis of GL Guidelines for the Performance of Type Approvals, Chapter 1 - Procedure (VI-7-1), Edition 2007.</b> <b>Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.</b>

Valid until **2021-10-17**

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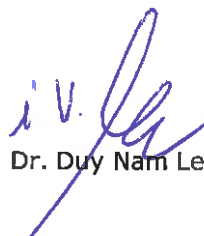
File No. **I.N.02**

**Hamburg, 2016-10-18**

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Dr. Duy Nam Le

  
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**Patch Cords Cat. 6A:** The patch cords are used for connecting the network equipment to patch panels and telecommunications outlets. They are suitable for frequencies of up to 650 MHz.

**Types:** Cat.6A Patch Cords U/UTP and Cat.6A Patch Cords S/FTP

**Lengths:** maximum 6m

<b>Patch Cord Characteristics:</b>	<b>U/UTP</b>	<b>S/FTP</b>
<b>Inner conductor diameter</b>	<b>AWG27/7</b>	<b>AWG26/7</b>
<b>Number of pairs</b>	<b>4</b>	<b>4</b>
<b>Screen 1 pair</b>	<b>Non</b>	<b>AL/ Folie</b>
<b>Outer screen</b>	<b>Non</b>	<b>Cu-braid</b>
<b>Jacket</b>	<b>LSZH</b>	<b>LSFRZH</b>
<b>Aussendurchmesser</b>	<b>max. 6.0 mm</b>	<b>max. 6.0 mm</b>

**Plug Housing:** UL 94-V0 Polycarbonate  
**Contacts:** Phosphor bronze (CuSn6)  
**Contact Plating:** 0,7 µm selective gold plate  
**Shielding:** Tin-plated brass

**Further technical data according to the manufacturer's data sheet:**

**Cat.6A EL Connection Module:** 03.11.2014 / V2.0 / Chrs

**Cat.6A Patch Cords:** 07.01.2015 / V1.5 / Chrs

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