



# TYPE APPROVAL CERTIFICATE

Certificate No:  
**TAE00002FU**  
Revision No:  
**2**

## This is to certify:

That the **Cable Ladders**

with type designation(s)  
**Topaz (Z) / Sapphire (P) / Emerald (E)**

Issued to  
**Legrand Electric Limited**  
**Birmingham, United Kingdom**

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

## Application :

Products approved by this certificate are accepted for installation on all vessels classed by DNV

<b>Material</b>	<b>Metallic</b>
<b>Suitable for open deck</b>	<b>Yes</b>

Issued at **Høvik** on **2023-10-10**

This Certificate is valid until **2027-12-20**.

DNV local unit: **UK & Ireland CMC & VMC**

Approval Engineer: **Georgy Abramenko**

for **DNV**

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**Oddvar Deinboll**  
**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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



## Product description

Cable ladders types Topaz (Z), Sapphire (P), Emerald (E)

Widths [mm] : 100 – 1200 in 50mm increments  
 Standard length [m]: 3, 6

Classification according to IEC 61537:

6.1 Material:	Metallic
6.2 Flame propagation:	Non-flame propagating system
6.3 Electrical continuity:	With electrical continuity characteristics
6.4 Electrical conductivity	Electrically conductive
6.5 Resistance against corrosion:	Class 3 Class 5 Class 6 Class 8 Class 9B and 9D
6.6 Temperature:	Min temperature: -20°C Maximum temperature: 90°C
6.7 Perforation in the base area:	N/A
6.8 Free base area:	Classification Y
6.9 Impact resistance	Up to 50J

## Application/Limitation

To be installed in accordance with the manufacturer's instructions and DNV rules.  
 Suitable for open deck.

## Type Approval documentation

### Tests carried out

Tested according to IEC 61537 (2006-10-11)

### Marking of product

Manufacturer – Type designation

### 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