DNV·GL

Certificate No:
TAE00003VJ

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Cable entry system CES

with type designation(s)
PLUSCON cabinet

Issued to
Phoenix Contact GmbH & Co. KG
Blomberg, Nordrhein-Westfalen, 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 **2020-02-13**
This Certificate is valid until **2025-02-12**.
DNV GL local station: **Essen**

Approval Engineer: **Harald Amberger**

for **DNV GL**

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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Job Id: **262.1-033154-1**
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Product description

Cable entry system CES

Type: PLUSCON cabinet

Sealing frames with:
- locking latch
- screw locking
- snap on frames
- coned sleeves
- accessories (locking plates, flat gaskets, EMC cable catch rails)

Cable sleeves:
- thermoplastics (with and without hole slotted)
- rubber (coned sleeves, without bore holes, slotted)
- filler plugs for sleeves

Application/Limitation

Location Classes:
Temperature: A, Humidity: B, Vibration: A
Ingress protection: IP 54 up to IP65 depending on the configuration

Operating instruction of the manufacturer to be observed

Type Approval documentation

Tests carried out

IEC 60512-1-1, 2, 5, 60208, EN 50262, Cold, dry heat, damp heat, vibration, flame retardancy

Marking of product

Phoenix - 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