Certificate No:
TAE00004M0

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Cable Entry and Holding Systems

with type designation(s)
KDL, KDL-EMV, KDP, KAF, KAF-EMV, ZL

Issued to
Murrplastik Systemtechnik GmbH
Oppenweiler, Baden-Württemberg, Germany

is found to comply with
DNV 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.

Issued at **Høvik** on **2023-01-03**
This Certificate is valid until **2028-01-02**.
DNV local unit: **Augsburg**

Approval Engineer: **Carsten Hunsalz**

for **DNV**

Frederik Tore Elter
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 Entry and Holding Systems

Type: KDL, KDL-EMV, KDP, KAF, KAF-EMV, ZL

KDL... plate type, IP 54
KDL/E... plate type , IP 54
KDP/N... plate type , IP 65
KDP/R... cylindric form, IP 65
KDP/... plate type (multi) IP 54

Accessories
KDT/...
BTK-...
BTK/...
BTG-...
BTG/...
SDT/...
BP...
BP/...

Cable Holding System/ Strain Relief
KAF...
KAF/EMV...
ZL...

Application/Limitation

Approved for use as cable entry and holding systems in switchboards and distribution boards.

Installation instruction of the manufacturer to be observed

The systems are not to be used in bulkheads / decks or for penetrating boundaries of tanks.

Type Approval documentation

Tests carried out

IEC 60529:1989+A1:1999+A2:2013 CSV; CLASS GUIDELINE DNV-CG-0339

Marking of product

Murrplastik Systemtechnik GmbH – 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