



TYPE APPROVAL CERTIFICATE

Certificate no.:
TAE00002YJ
Revision No:
1

This is to certify:

that the Termination and Joint for Cable

with type designation(s)

Connecting box with 5 x 2,5 mm² flat cable of halogen free compound

issued to

WOERTZ AG

MuttENZ, BL, Switzerland

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 **2023-11-08**

for **DNV**

This Certificate is valid until **2028-11-07**.

DNV local unit: **Augsburg**

Approval Engineer: **Carsten Hunsalz**

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.



Form code: TA 251

Revision: 2023-09

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Product description

Quick connection installation system

Type: Connecting box with 5 x 2,5 mm² flat cable of halogen free compound

The system consists of:

Flat cable:	- 5 x 2,5 mm ² halogen free, (0,6/1kV)	Art. No. 49846
	- Cable end piece,	Art. No. 49734
Connecting boxes:	- 5 x 2,5 mm ² for supply and branching with screw connection,	Art. No. 49701P
	- With socket 3-pole type Code 1,	Art. No. 49713P/L1; Art. No. 49713P/L2; Art. No. 49713P/L3
	- With socket 5-pole type Code 1,	Art. No. 49715P
	- 5 x 2,5 mm ² , flat execution,	Art. No. 49703P

Application/Limitation

To be installed in accordance with the manufacturer's instructions and DNV rules.

For fixed installation in dry spaces inside the ship.

Degree of protection: IP 20

Type Approval documentation

Test reports : VDE Prüf- und Zertifizierungsinstitut, Ausweis Nr. 104233;
SEV no. 04-IK 0078.03 and ..04, 29.06.04
SEV no. 96.1 10848/01 and /02, 05.08.98, CB CH-2594:2004-06-29,
CB CH-5170:2009-03-13; CCA IK-298:2009-03-11

Tests carried out

EN 60998-1:2004; EN 60998-2-1:2004; EN 60998-2-3:2004; EN 60947-1:2007; EN 60947-7-1:2009

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