

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Low Voltage Cable**with type designation(s)
TEYHXVHCXVH

Issued to

**HEW-Kabel GmbH
Wipperfürth, 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.****Rated voltage (V) 300/500****Temp. class (°C) 150**Issued at **Hamburg** on **2017-10-25**This Certificate is valid until **2022-10-24**.DNV GL local station: **Essen**for **DNV GL**Approval Engineer: **Carsten Hunsalz**

**Oliver Darley
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.



Job Id: **262.1-025284-1**
Certificate No: **TAE00002B6**

Product description

HEW ETFE/STP/XVH - Connection Cable

Type: TEYHXVHCXVH

Rated voltage: 300/500 V
Max. conductor temperature: 150° C (20000h)
Ambient temperature: -50° C to +120° C (20000h)
Conductor: Tinned copper
Insulation: 1. Insulation ETFE, 2. Insulation STP 301
Inner sheath: XVH-1
Screen / braid: Tinned copper braiding
Outer sheath: XVH-1

Number of cores:	Cross-sectional area:
6	0,5 mm ²
2 to 12	1 mm ² to 1,5 mm ²
2 to 4	2,5 mm ²
2	6 mm ²

Application/Limitation

Measures for limitation of the propagation of fire along cable bundles are required (fire stops)

Type Approval documentation

Test Report: HEW - 07167v1

Data Sheet HEW-KABEL: TD-Number 98754-001

Tests carried out

Standard	Release	General description	Limitation
MIL-W-16878/13	1994	Military cable and wires	
IEC 60228	2004-11	Conductors of insulated cables	
VDE 0207-6	2004-10	Insulating and sheathing compounds for cables and flexible cords	
IEC 60092-360	2014-04	Electrical installations in ships - Part 360: Insulating and sheathing materials for shipboard and offshore units, power, control, instrumentation and telecommunication cables.	partly
IEC 60332-1-2	2015-07	Tests on electric and optical fibre cables under fire conditions – Part 1-2: Test for vertical flame propagation for a single insulated wire or cable – Procedure for 1 kW pre-mixed flame	

Marking of product

Example: HEW-KABEL - DNV GL No. TAE00002B6 – TEYHXVHCXVH - size – 300/500 V – special text

Periodical assessment

Job Id: **262.1-025284-1**
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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