

TYPE APPROVAL CERTIFICATE

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

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) 600****Temp. class (°C) 120**Issued at **Hamburg** on **2020-01-06**This Certificate is valid until **2025-01-05**.for **DNV GL**DNV GL local station: **Essen**Approval Engineer: **Carsten Hunsalz**

**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.



Product description

HEW - ETFE / XVH - Control Cable

Type: TEHCTECXVH

Rated voltage: 600 V
Operating temperature: - 40° C to 150° C (3000h)
to 120° C (20000h)
Conductor: Stranded, copper plain, tpc, npc, spc
Insulation: ETFE
Screen / braid: Copper braiding plain, tpc, npc, spc
Outer sheath: XVH-1

Number of cores: Cross-sectional areas:
2 to 10 0,5 mm² to 2,5 mm²

Application/Limitation

For diesel engines, turbines, auxiliary boilers devices with increased temperatures.
For measuring cables in cold storage chambers.

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

Type Approval documentation

Test Report: HEW Test Report No. 2013091804 dated Febr. 2014;
VDE test report, dated 22.09.1997;
No.7 dated 03.09.1997
Data Sheet: TD-Number 99495-001

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

HEW-KABEL - DNV GL No. TAE00003R3 – TEHCTECXVH - size – 600V – special text

Job Id: **262.1-030983-1**
Certificate No: **TAE00003R3**

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