



Certificate no.:
TAE000055F

TYPE APPROVAL CERTIFICATE

This is to certify:

that the **Electric Power Cable**

with type designation(s)

High temperature flexible silicone rubber varnished cable 0,6/1 (1,1) kV

issued to

POLYCAB INDIA LIMITED

Halol, Gujarat, India

is found to comply with

DNV rules for classification – Ships, offshore units, and high speed and light craft

Application:

Special high temperature power cable for connection and use in motors, generators, transformers and drives.

Fire resistant.

Products approved by this certificate are accepted for installation on all vessels classed by DNV.

Rated voltage (kV) 0,6/1 (1,1)

Temp. class (°C) 95+

Issued at **Høvik** on **2026-04-21**

This Certificate is valid until **2031-04-20**.

for **DNV**

DNV local unit: **India CMC MES**

Approval Engineer: **Ivar Bull**

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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 USD 300 000.

Product description

Type: High temperature flexible silicone rubber varnished cable 0,6/1 (1,1) kV

Variants: 1 core 1,5 to 400 mm²

Conductor: Annealed tinned copper Class 5
Core insulation: Silicone rubber compound
Protective layer: Synthetic fibre yarn braid varnished for enhanced friction resistance

Application/Limitation

This type of cable is fire resistant according to IEC 60331-1/2.

The requirements of SOLAS Amendments Chapter II-1, Part D, Reg. 45, 5.2 (provision to be taken to limit Fire Propagation along Bundles of Cables or Wires) are fulfilled without any additional measures.

Operating temperature in continuous mode -55°C to +180°C up to 20.000 hours based on Arrhenius plot.

Type Approval documentation

Tests carried out

DNV CP-0399	2021-08	Electric cables.	
IEC 60092-350	2020-01	Electrical installations in ships - Part 350: General construction and test methods of power, control and instrumentation cables for shipboard and offshore applications	Partly
IEC 60092-360	2021-01	Electrical installations in ships - Part 360: Insulating and sheathing materials for shipboard and offshore units, power, control, instrumentation and telecommunication cables	Partly
IEC 60092-353	2016-09	Electrical installations in ships - Part 353: Power cables for rated voltages 1 kV and 3 kV	Partly
IEC 60331-1	2018-03	Tests for electric cables under fire conditions - Circuit integrity - Part 1: Test method for fire with shock at a temperature of at least 830 °C for cables of rated voltage up to and including 0,6/1,0 kV	120 min
IEC 60332-1-2	2015-07	Tests on electric cables under fire conditions. Test for vertical flame propagation for a single insulated wire or cable.	
IEC 60332-3-24	2018-07	Tests on electric and optical fibre cables under fire conditions - Part 3-22/24: Test for vertical flame spread of vertically mounted bunched wires or cables - Category A/C	Charred portion of sample does not exceed 2,5m above bottom edge of burner.
IEC 60754-1	2019-11	Test on gases evolved during combustion of materials from cables - Part 1: Determination of the halogen acid gas content	Low Halogen: <0,5% Halogen
IEC 60754-2	2019-11	Test on gases evolved during combustion of materials from cables - Part 1: Determination of the halogen acid gas content	Halogen free: pH > 4,3 Conductivity < 10µS/mm
IEC 60684-2	2025-05	Flexible insulating sleeving – Part 2: Methods of test Clause 47.1 Methods of determination of low levels of chlorine, and/or Bromine and/or iodine Clause 47.2 Methods of determination of low levels of fluorine	HF max 0,1% [0,02% can be detected]
IEC 61034-1/2	2019-11	Measurement of smoke density of cables burning under defined conditions – Part 1: Test apparatus Part 2: Test procedure and requirements	Low smoke Light transmittance >82%

DNV CP-0399	2021-08	Electric cables.	
IEC 60092-350	2014-08	Annex E: Cold bend test and impact test for low temperature behavior	Cold bend: -55°C Cold impact -55°C
IEC 60811-401	2017-07	Documentation of mechanical properties like hardness change, tensile strength, elongation at break and volume change of High-grade Silicone rubber exposed for various oils, automotive fluids, hydraulic fluids, transformer oils, special oils, solvents, silicone fluids, silicone greases, food products, acids, bases, and salts at various temperatures and durations.	Please see test reports for test details and results.
ISO 4665	2016-01	Rubber, vulcanized or thermoplastic — Resistance to weathering	Tensile strength retention: min 70% Elong. at break retention: min 70%

Marking of product

YEAR - POLYCAB - 1 C x cond. cross sect. - SQ.MM - 1.1 KV - IEC60092 - IEC60331-1/2 - IEC60332-3-22 - XXXX M

Manufactured by

POLYCAB INDIA LIMITED, Halol, Gujarat, India.

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) and selected type tests (ref. to applicable class programs) checked (if not available these tests shall 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