

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Lightweight Electric Cable**

with type designation(s)

High temperature thermocouple cable, unarmored, PTFE - Polyimide

Issued to

SAMI SPA**Liscate MI, MI, Italy**

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft**Application :****Special high temperature thermocouple cable designed for gas turbines and combustion engines.****Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.****Rated voltage (kV) 300V****Temp. class (°C) 200**Issued at **Høvik** on **2019-07-02**This Certificate is valid until **2024-06-18**.DNV GL local station: **Milan**for **DNV GL**Approval Engineer: **Ivar Bull**

Trond Sjøvåg
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: **262.1-014224-2**
Certificate No: **TAE00003JW**

Product description

Type: High temperature instrumentation wire
Conductors: Thermocouple extension alloy Kx
Core insulation: PTFE – Polyimide tape

Number of cores x conductor cross-section mm ²	Type designation
2 x 0,96	2 x 18 AWG (1,00 mm ²) Kx

Application/Limitation

Special high temperature cable designed for gas turbines and combustion engines.

Type Approval documentation

Tests carried out

Standard	Release	General description	Limitation
DNVGL-CP-0400	2015-12	Lightweight electric cables	Relevant parts.
	2013-01	Complete cable has passed accelerated ageing test	20.000h@280°C

Marking of product

SAMI SPA – Type designation/description - 300 V– Batch n°

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