

TYPE APPROVAL CERTIFICATE

This is to certify:**That the High Voltage Cable**with type designation(s)
MMGSGSGO, MMGSEGSGO

Issued to

Prysmian Kabel und Systeme GmbH
Neustadt b. Coburg, Bayern, 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 (kV) 6/10 (12)**
Temp. class (°C) 90Issued at **Hamburg** on **2019-08-29**for **DNV GL**This Certificate is valid until **2024-08-28**.DNV GL local station: **Augsburg**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

EPR insulated and SHF2 sheathed cables with screen

Type PRYSMIAN – Navy Cable MMGSGSGO, MMGSEGSGO

Rated voltage: 6/10 (12) kV and 3,6/6 kV FC
 Max. operating conductor temperature: 90° C
 Conductor: Stranded copper wire conductor
 Core insulation: - Inner semi-conductive layer
 - EPR
 - Outer semi-conductive layer
 Screen: Copper wire or copper tape
 Extrud. inner covering: Polyolefine
 Armour: Copper wire braiding
 Outer sheath: Cross linked halogen free compound SHF2

Number of cores: Cross-sectional area:
 1 35 mm² to 150 mm²
 3 35 mm² to 120 mm²

Application/Limitation

The cables have been approved for firm laying, preferable on ships of the Federal Armed Forces.

Type Approval documentation

Test Report: VDE Certificate of conformity with factory surveillance
 Certificate No. 40049917 / Ref. No. 2306700-5970-0014 / 251678, dated 2019-04-16

BAAINBw Certificate of Approval No. U3.3h/19018, dated 03.05.2019

Specification: VG 95218-14:2018-04

Tests carried out

Standard	Issued	General description	Limitation
VG 95218-14	2018-04	Cables and insulated wires - Part 14: Medium voltage cables, screened, with sheath, halogenfree, low fire hazard	
VG 95218-2	2017-12	Cables and insulated wires - Part 2: Generic specification	
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	
IEC 60332-3-22	2018-07	Tests on electric and optical fibre cables under fire conditions – Part 3-22: Test for vertical flame spread of vertically-mounted bunched wires or cables – Category A	

Job Id: **262.1-028175-1**
Certificate No: **TAE00003NB**

Marking of product

Example:

◆ Prysmian - MMGSGSGO - size - VG95218T014xxxx - voltage rating - VDE-REG-Nr

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