

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Low Voltage Cable**with type designation(s)
PRYSMIAN - Navy Cable MGGO/MGSGOIssued to
Prysmian Kabel und Systeme GmbH
Neustadt b. Coburg, Bayern, Germanyis 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) 1200 AC / 1800 DC**
Temp. class (°C) 90Issued at **Hamburg** on **2018-10-11**for **DNV GL**This Certificate is valid until **2023-10-10**.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 elastomer sheathed cables and insulated wires with and without screen

Type PRYSMIAN – Navy Cable MGGO/MGSGO

Rated voltage: up to 1200 V AC and up to 1800 V DC
Maximum operating conductor temperature: 90 °C
Conductor: Copper, plain, stranded (class 2 or 5)
Insulation: Halogenfree EPR
Screen / braid: Plain copper
Outer sheath: Halogenfree elastomer

Number of cores	Cross-sectional area
1	4 to 300 mm ² A001 to A020
2	1,5 to 25 mm ² B001 to B074
3	1,5 to 120 mm ²
4	4 to 95 mm ²
33	0,75 mm ²
1	25 to 300 mm ² C001 to C013
19	6 mm ² D001

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. 40001122 / Ref. No.2306700-5970-0060 / 199846, dated 2015-03-04

BAAINBw Certificate of Approval No. U3.3h/14089, dated 18.12.2014

Specification: VG 95218-60:2013-12 Type A / B / C / D

Tests carried out

Standard	Issued	General description	Limitation
VG 95218-60	2013-12	Cables and insulated wires — Part 60: Cables and insulated wires with and without screen, with sheath, halogenfree, low fire hazard	
VG 95218-2	2009-12	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	

Job Id: **262.1-028176-1**
Certificate No: **TAE0000364**

Marking of product

Example:

Prysmian Kabel und Systeme GmbH – MGGO/MGSGO - size - 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