

Certificate No: TAE00004BD

TYPE APPROVAL CERTIFICATE

This is to certify:				
That the Low Voltage Cable				
with type designation(s) Üntel FMSGSGO (VG 95218/63)				
Untel Kablolari San. ve Tic. A.S. Dilovasi, Turkey				
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.				
Rated voltage (V) AC 250, DC 355 Temp. class (°C) 90				
Issued at Hamburg on 2021-08-17	for DNV			
This Certificate is valid until 2026-08-16 . DNV local station: Istanbul	IOI DNV			
Approval Engineer: Carsten Hunsalz	Arne Schaarmann Head of Section			

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 300,000 USD.

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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.



Job Id: **262.1-035583-1** Certificate No: **TAE00004BD**

Product description

Type: Üntel FMSGSGO (VG 95218/63)

Rated voltage: 250V AC, 355V DC
Maximum operating conductor temperature: 90 °C
Conductor: Copper, stranded IEC 60228

Insulation: Halogen free, cross linked polymeric material

Individual screen: Plain copper wire braid Screen: Plain copper wire braid

Outer sheath: Halogen free, cross linked elastomeric material

Number of cores and Cross-sectional area

2, 4, 7, 11, 14, 19, 24 x2x0,75mm² A001 to A007

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. 40049271 / Ref. No.1773000-5970-0063 / 250256, dated 2018-12-11

BAAINBw Certificate of Approval No. U3.3h/19071, dated 16.08.2019

Specification: VG 95218-63:2016-12 Type A

Tests carried out

Standard	Issued	General description	Limitation
VG 95218-63	2016-12	Cables and insulated wires — Part 63: Cable with screen and sheath, pair formation, screened, 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 60332-3-24	2018-07	Tests on electric and optical fibre cables under fire conditions – Part 3-24: Test for vertical flame spread of vertically-mounted bunched wires or cables – Category C	
IEC 60754-2	2019-11	Test on gases evolved during combustion of materials from cables - Part 2: Determination of acidity (by pH measurement) and conductivity	Halogen free: pH > 4,3 Conductivity < 10μS/mm
IEC 61034-1/2	2019-11	Measurement of smoke density of cables burning under defined conditions – Test apparatus, procedure and requirements	Low smoke Light transmittance >60%

Marking of product

ÜNTEL VG 95218 T 063 Type Dash No FMSGSGO number of cores x size WEEK YEAR LOT NO MT.

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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

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