



Marine & Offshore

Certificate number: 06227/F0 BV

File number: ACE 01/126/01

Product code: 25011

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

UNTEL KABLORI SANAYI VE TICARET A/S
KOCAELI - TURKEY

for the type of product

CABLES (LOW VOLTAGE)

0.6/1 kV

MGG & MGCG series.

Requirements:

BV Rules for the Classification of Steel Ships.

IEC 60092-350 (2020), IEC 60092-353 (2016), IEC 60092-360 (2014)

IEC 60228 (2004)

IEC 60332-1-2 (2015), IEC 60332-3-22 Cat. A (2018)

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 21 Jul 2025

For Bureau Veritas Marine & Offshore,

At BV ISTANBUL, on 21 Jul 2020,

Gurcan Yilmaz



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

The electronic version is available at: <http://www.veristarp.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=tgq406klin>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

The **MGG & MGCG series** are low voltage cables for Marine and Offshore applications.

1.1 - Specifications:

Rated voltage:	0.6/1kV
Flame retardant:	IEC 60332-1-2, IEC 60332-3-22 Cat.A

1.2 - Construction:

Conductor:	Stranded, annealed copper wire Class 2 (Class 5 and/or tinned on request)
Insulation:	HEPR
Screening:	Copper braided screen (MGCG EMC only)
Outer sheath:	SE

1.3 - Approval range:

Type	Number of cores	Cross sectional areas (mm ²)
MGG	1	1.5 - 300
	2	1.5 - 25
MGCG	3	1.5 - 240
	4	1.5 - 150
	5 - 61	1.5 - 4

2. DOCUMENTS AND DRAWINGS :

Specification N° 2020-04-TS_143, Rev.0, dated 29 Apr 2020.

Specification N° FR 70-060, Rev.0, dated 01 Sep 2009.

3. TEST REPORTS :

Test report N° 1.08.16.01-95-606 dated 20.07.1995 issued by Turkish Standards Institution.

Test reports N° 2010BV10 and 2010BV11 dated 11/feb./2010

Test reports N° 02.2010.LR.01 and 02.2010.LR.02 dated 05/Feb./2010

Tests reports dated 15.Apr.2015.

Tests report N° T20019-R00, dated 09 Jun 2020.

4. APPLICATION / LIMITATION :

BV Rules for the Classification of Steel Ships.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The above products are to be supplied by **UNTEL KABLOLARI SANAYI VE TICARET A/S** in compliance with the type and the requirements described in this certificate.

5.2 - This type of product is within the category IBV of Bureau Veritas Rule Note NR320.

5.3 - BV product certificate is required.

5.4 - For information, **UNTEL KABLOLARI SANAYI VE TICARET A/S** has declared to Bureau Veritas the following production site:

UNTEL KABLOLARI SANAYI VE TICARET A/S
DEMIRCILER KOYU
MAKINE OSB
6.CADDE NO.4 41455
DILOVASI
KOCAELI
TURKEY

6. MARKING OF PRODUCT :

The cable shall be marked on the surface outer sheath, in a durable legible and visible manner, with the following information through the length of cable:

6.1 - Voltage grade

6.2 - Cable symbol and Temperature

6.3 - Applicable standard to flame retardant

6.4 - No. of conductor and conductor size

6.5 - Manufacturer's name or trade mark

6.6 - Year of manufacture.

7. OTHERS :

7.1 - It is **UNTEL KABLOLARI SANAYI VE TICARET A/S**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This Certificate supersedes the Type Approval Certificate N° 06227/E0 BV issued on 18 Jun 2015 by the Society.

***** END OF CERTIFICATE *****