



Marine & Offshore

Certificate number: 75265/A0 BV

File number: MPA2301035

Product code: 2534H

*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*

**KARDES ELEKTRIK SAN. VE TIC. A.S**

Arnavutkoy-Istanbul - Türkiye

*for the type of product*

**CABLE ENDS, CONNECTING TERMINALS**

STANDARD TYPE CABLE LUGS (KP XXX MYY MODEL) &  
DIN 46235 TYPE CRIMP CABLE LUGS (KDP XXX YY MODEL)

### Requirements:

Bureau Veritas Rules for the Classification of Steel Ships  
IEC 61238-1-3: 2019.

*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: 09 Jan 2029**

### For Bureau Veritas Marine & Offshore,

At BV ISTANBUL, on 09 Jan 2024,  
Gurcan Yilmaz

***This certificate was created electronically and is valid without signature***



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.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION :

The **DIN 46235 Type** and **Standard Type** Cable Lugs.

Product designation	Profile (mm <sup>2</sup> )	Bolt (Ø)	Product designation	Profile (mm <sup>2</sup> )	Bolt (Ø)
<b>Standard Type</b>			<b>DIN 46235 Type</b>		
KP010-M05	10mm <sup>2</sup>	M5	KDP 01006	10mm <sup>2</sup>	M6
KP010-M06	10mm <sup>2</sup>	M6	KDP 01008	10mm <sup>2</sup>	M8
KP010-M08	10mm <sup>2</sup>	M8	KDP 01606	16mm <sup>2</sup>	M6
KP010-M10	10mm <sup>2</sup>	M10	KDP 01608	16mm <sup>2</sup>	M8
KP016-M05	16mm <sup>2</sup>	M5	KDP 01610	16mm <sup>2</sup>	M10
KP016-M06	16mm <sup>2</sup>	M6	KDP 02508	25mm <sup>2</sup>	M8
KP016-M08	16mm <sup>2</sup>	M8	KDP 02510	25mm <sup>2</sup>	M10
KP016-M10	16mm <sup>2</sup>	M10	KDP 03508	35mm <sup>2</sup>	M8
KP016-M12	16mm <sup>2</sup>	M12	KDP 03510	35mm <sup>2</sup>	M10
KP025-M06	25mm <sup>2</sup>	M6	KDP 05008	50mm <sup>2</sup>	M8
KP025-M08	25mm <sup>2</sup>	M8	KDP 05010	50mm <sup>2</sup>	M10
KP025-M10	25mm <sup>2</sup>	M10	KDP 07008	70mm <sup>2</sup>	M8
KP025-M12	25mm <sup>2</sup>	M12	KDP 07010	70mm <sup>2</sup>	M10
KP035-M06	35mm <sup>2</sup>	M6	KDP 07012	70mm <sup>2</sup>	M12
KP035-M08	35mm <sup>2</sup>	M8	KDP 09508	95mm <sup>2</sup>	M8
KP035-M10	35mm <sup>2</sup>	M10	KDP 09510	95mm <sup>2</sup>	M10
KP035-M12	35mm <sup>2</sup>	M12	KDP 09512	95mm <sup>2</sup>	M12
KP050-M08	50mm <sup>2</sup>	M8	KDP 12010	120mm <sup>2</sup>	M10
KP050-M10	50mm <sup>2</sup>	M10	KDP 12012	120mm <sup>2</sup>	M12
KP050-M12	50mm <sup>2</sup>	M12	KDP 15010	150mm <sup>2</sup>	M10
KP070-M08	70mm <sup>2</sup>	M8	KDP 15012	150mm <sup>2</sup>	M12
KP070-M10	70mm <sup>2</sup>	M10	KDP 18512	185mm <sup>2</sup>	M12
KP070-M12	70mm <sup>2</sup>	M12	KDP 24012	240mm <sup>2</sup>	M12
KP095-M08	95mm <sup>2</sup>	M8	KDP 24016	240mm <sup>2</sup>	M16
KP095-M10	95mm <sup>2</sup>	M10			
KP095-M12	95mm <sup>2</sup>	M12			
KP120-M08	120mm <sup>2</sup>	M8			
KP120-M10	120mm <sup>2</sup>	M10			
KP120-M12	120mm <sup>2</sup>	M12			
KP120-M14	120mm <sup>2</sup>	M14			
KP150-M10	150mm <sup>2</sup>	M10			
KP150-M12	150mm <sup>2</sup>	M12			
KP150-M14	150mm <sup>2</sup>	M14			
KP185-M12	185mm <sup>2</sup>	M12			
KP185-M14	185mm <sup>2</sup>	M14			
KP185-M16	185mm <sup>2</sup>	M16			
KP240-M12	240mm <sup>2</sup>	M12			
KP240-M14	240mm <sup>2</sup>	M14			
KP240-M16	240mm <sup>2</sup>	M16			
KP300-M10	300mm <sup>2</sup>	M10			
KP300-M12	300mm <sup>2</sup>	M12			
KP300-M16	300mm <sup>2</sup>	M16			
KP400-M12	400mm <sup>2</sup>	M12			
KP400-M20	400mm <sup>2</sup>	M20			

### 2. DOCUMENTS AND DRAWINGS :

**KARDES:**

- DIN 46235 Type Crimp Cable Lugs - Technical Specifications, No. LST.SKP.01, dated 20-10-2023.
- Standard Type Cable Lugs - Technical Specifications, No. LST.SKP.02, dated 08-08-2023.
- Test Plan for Crimp Cable Lugs, No. KE2Q84, dated 08-08-2023.

**3. TEST REPORTS :****BUSTYAL:**

- Test Report for 10mm<sup>2</sup> Cu DIN norm cable lug, No. R23.006/01, dated 18-10-2023.
- Test Report for 50mm<sup>2</sup> Cu DIN norm cable lug, No. R23.006/02, dated 18-10-2023.
- Test Report for 240mm<sup>2</sup> Cu DIN norm cable lug, No. R23.006/03, dated 18-10-2023.
- Test Report for Compression type 10mm<sup>2</sup> Cu cable lug, No. R.0048-17, dated 18-10-2023.
- Test Report for Compression type 185mm<sup>2</sup> Cu cable lug, No. R.0005-21, dated 18-10-2023.
- Test Report for Compression type 400mm<sup>2</sup> Cu cable lug, No. R.0049-17, dated 18-10-2023.

**4. APPLICATION / LIMITATION :**

Bureau Veritas Rules for the Classification of Steel Ships and Offshore Units.

**5. PRODUCTION SURVEY REQUIREMENTS :**

5.1 - The above products are to be supplied by **KARDES ELEKTRIK SAN. VE TIC. A.S** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - **KARDES ELEKTRIK SAN. VE TIC. A.S** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

5.4 - For information, **KARDES ELEKTRIK SAN. VE TIC. A.S** has declared to Bureau Veritas the following production site(s):

**KARDES ELEKTRIK SAN. VE TIC. A.S**  
**YASSIOREN MAHALLESİ**  
**HİFA SOKAK NO:4**  
**ARNAVUYKOY- İSTANBUL**  
**Arnavutkoy-Istanbul**  
**Türkiye**

**6. MARKING OF PRODUCT :**

- Maker's name or trademark.
- Equipment type or model identification
- Date of manufacture and/or serial number

**7. OTHERS :**

It is **KARDES ELEKTRIK SAN. VE TIC. 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.

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