



Germanischer Lloyd

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. 44 523 - 07 HH

Company ÜNIKA Üniversal Kablo San. ve Tic A.S.
Yeni Sülün Sok. No: 5, İclevent-Besiktas
34330 Istanbul, TURKEY

Product Description Haologen-free flame retardant XLPE insulated and polyolefin thermoplastic sheathed shipboard power cable

Type U-HF m; U-HF m (C)
U-HFA m; U-HFA m (C); U-HFA m EMC

Environmental Category None

Technical Data / Range of Application
Rated voltage: 0,6 / 1 kV
Max. operating conductor temperature: 90° C
Conductor: Stranded, plain or tinned copper (class 2 or 5)
Insulation: XLPE
Collective screen: (C) - Metal coated polyester tape with drain wire
Screen for EMC type: One layer of overlapped copper tape with 100% coverage + drain wire under the armour
Armour: A - Plain or tinned copper wire braid
Outer sheath: Polyolefin thermoplastic (SHF 1)

Number of cores:	Cross-sectional area:
1	1,5 mm ² - 300 mm ²
2	1,0 mm ² - 95 mm ²
3	1,0 mm ² - 240 mm ²
4	1,0 mm ² - 150 mm ²
5 to 37	1,0 mm ² - 2,5 mm ²

Test Standard IEC 60092-350: 2001; 60092-351:2004; 60092-353:2001; 60092-359:1999;
IEC 60332-3 cat A; 60754-1/2:1997; 61034-1/2:2005

Documents Test report : ÜNIKA dated 06.03.2007
Specification: ÜNIKA Halogen-Free Marine Cables

Remarks None

Valid until 2012-03-15

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File No. I.N.01

Hamburg, 2007-03-16

Type Approval Symbol



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Heinz Tobaben

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This certificate is issued on the basis of "Guidelines for the Performance of Type Approvals Part 1, Procedure".