



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. 44 526 - 07 HH

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

Product Description Haologen-free flame retardant XLPE insulated and polyolefin thermoplastic sheathed, fire resistant shipboard telecommunication cable

Type U-HFFRT m; U-HFFRT m (C); U-HFFRT m (I); U-HFFRT m (I+C)
U-HFFRAT m; U-HFFRAT m (C); U-HFFRAT m (I); U-HFFRAT m (I+C)

Environmental Category None

Technical Data / Range of Application
Rated voltage: 250 V
Max. operating conductor temperature: 90° C
Conductor: Stranded, plain or tinned copper (class 2 or 5)
Insulation: Mica tape + XLPE
Collective screen: (C) - Metal coated polyester tape with drain wire
Individual screen: (I) - Metal coated polyester tape with drain wire
Armour: A - Plain or tinned copper wire braid
Outer sheath: Polyolefin thermoplastic (SHF 1)

Number of cores: Cross-sectional area:

| | |
|-----------------|--|
| 1 x 2 to 37 x 2 | 0,5 mm ² to 2,5 mm ² |
| 1 x 3 to 24 x 3 | 0,5 mm ² to 2,5 mm ² |
| 1 x 4 to 24 x 4 | 0,5 mm ² to 2,5 mm ² |

Test Standard IEC 60092-350: 2001; 60092-351:2004; 60092-376:2003; 60092-375:1977
60092-359:1999; 60332-3/A; 60331-21:1999; 60754-1/2:97; 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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Type Approval Symbol



File No. I.N.01

Hamburg, 2007-03-16

Germanischer Lloyd

Heinz Tobaben

Reinhard Fenster

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