




# Type Approval Certificate

Germanischer Lloyd

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.	<b>4476107 HH</b>												
Company	<b>Üntel Kablolari Sanayi ve Ticaret A.S. Alemdag Caddesi Siteyolu 81230 Ümraniye, Istanbul, TURKEY</b>												
Product Description	<b>Halogen free, XLPE insulated and thermoplastic sheathed shipboard power and control cable with or without copper wire braiding</b>												
Type	<b>M2XH; M2XCH M2XH-FFR; M2XCH-FFR (fire resistant types)</b>												
Environmental Category	<b>None</b>												
Technical Data / Range of Application	<b>Rated voltage: 0,6 / 1 kV Maximum operating conductor temperature: 90° C Conductor: Stranded copper conductor, class 2 Insulation: XLPE for M2XH and M2XCH types Mica tape + XLPE for M2XH-FFR; M2XCH-FFR types Screen / braid: Copper wire braiding for M2XCH and M2XCH-FFR Outer sheath: Thermoplastic polyolefin based compound / SHF1</b>												
	<table><tr><td><b>Number of cores:</b></td><td><b>Cross-sectional area:</b></td></tr><tr><td>1</td><td>2,5 to 300 mm<sup>2</sup></td></tr><tr><td>2</td><td>1 to 25 mm<sup>2</sup></td></tr><tr><td>3</td><td>1 to 120 mm<sup>2</sup></td></tr><tr><td>4</td><td>1 to 95 mm<sup>2</sup></td></tr><tr><td>5 to 37</td><td>1 and 1,5 mm<sup>2</sup></td></tr></table>	<b>Number of cores:</b>	<b>Cross-sectional area:</b>	1	2,5 to 300 mm <sup>2</sup>	2	1 to 25 mm <sup>2</sup>	3	1 to 120 mm <sup>2</sup>	4	1 to 95 mm <sup>2</sup>	5 to 37	1 and 1,5 mm <sup>2</sup>
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Test Standard	<b>IEC 60092-353:1995; 60092-350:1999; 60092-351:2000; 60092-359:1999 IEC 60332-3-22: 2000; IEC 60331-21: 1999; IEC 60754-1-2; 60134-1-2: 1997</b>												
Documents	<b>Test report : No. : 07.UU.05-5 / Üntel Kablo No.: 0.16.01.05/05-1166 / TSE</b>												
	<b>Manufacturer's data sheets / specifications</b>												
Remarks	<b>None</b>												
Valid until	<b>2012-05-22</b>												
Page 1 of 1	Type Approval Symbol 												
File No. I.N.01													
<b>Hamburg, 2007-05-23</b>													

**Germanischer Lloyd**

Heinz Tobaben

Reinhard Fenster

This certificate is issued on the basis of "Regulations for the Performance of Type Tests, Part 0, Procedure".