

Type Approval Certificate Extension

This is to certify that Certificate No. 03/00032 for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

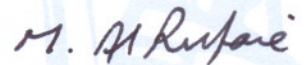
PRODUCER	UNIKA Universal Kablo Sanayi
PLACE OF PRODUCTION	UNIKA Universal Kablo Sanayi Veliköy Sanayi Cerkezköy, Tekirdag Istanbul 59550 Turkey
DESCRIPTION	Halogen-free, low smoke, flame retardant, XLPE insulated, SHF1 sheathed, single pair/triple/quad and multi-pair, armoured, shipboard and offshore communication and control cables (250V)
TYPES	U-HFAT m: Armoured U-HFAT m in EMC: Armoured and electromagnetic-interference-resistant
APPLICATION	Marine, offshore and industrial use

"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."

The attached Design Appraisal Document No.03/00032(E1) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 03/00032 to which this extension should be attached.

Certificate No.	03/00032(E1)
Issue Date	22 October 2007
Expiry Date	03 February 2013
Sheet	1 of 1



M.H.A. Rufaie
London Design Support Services
Lloyd's Register EMEA

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Page 1 of 2
Document number 03/00032(E1)
Issue number 1

DESIGN APPRAISAL DOCUMENT

Date 22 October 2007	Quote this reference on all future communications LDSS/PAS/TA/W01507106/MHR/O- 86118
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LLOYD'S REGISTER TYPE APPROVAL SYSTEM, 2002.

Issued to: UNIKA UNIVERSAL KABLO SANAYI

**for: HALOGEN-FREE, LOW SMOKE, FLAME RETARDANT, XLPE INSULATED,
SHF1 SHEATHED, SINGLE APRI/TRIPLE/QUAD AND MULTI-PAIR,
ARMOURED SHIPYARD AND OFFSHORE
COMMUNICATION AND CONTROL CABLES (250V)**

**Types: U-HFAT m (ARMOURED) AND U-HFAT m EMC (ARMOURED)
TYPE APPROVAL CERTIFICATE No. 03/00032(E1)**

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval System, 2002 and this Design Appraisal Document forms part of the Certificate.

ADDITIONAL APPROVAL DOCUMENTATION

Request form	01.01.2007
LR Istanbul email	03.10.2007
UNIKA email	02.10.2007
UNIKA email	18.09.2007
UNIKA declaration of production locations	Undated

Data Sheets

UNIKA general description	Undated
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TEST REPORTS

Certificate No. KY-100-03/KG-94	18.12.2003
BVQi Certificate No. 176065/ A	10.10.2005
Certificate No. 0312103 (Moody International)	15.03.2006
Certificate No. 120601004 (Moody International)	15.03.2006

Also all the documentation listed on Design Appraisal Documents associated with Type Approval Certificate No. 03/00032

Supplementary Type Approval Terms and Conditions

Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.

Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

DESIGN APPRAISAL DOCUMENT

Date 22 October 2007	Quote this reference on all future communications LDSS/PAS/TA/W01507106/MHR/O- 86118
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Supplementary Type Approval Terms and Conditions (cont.)

Lloyd's Register EMEA reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the Lloyd's Register Type Approval System Procedure.

M. M. Ruffaie

M.H.A. RUFFAIE

Lead Specialist

Product Approval / London Design Support Services

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Part 1B
Subject: Electrical Equipment (Not Environmentally Tested)
Product: Cables Power (Part 1B)

Producer/Licence No.	Description of Product				Cert. No.
	Type	Details of Approval		Application	
UNIKA Universal Kablo Sanayi, Velikay Sanayi, Bolgesi, Gerkezkoy, Tekirdag, Istanbul 59550, Turkey.		Halogen-free, low smoke, flame retardant, XLPE insulated, SHF1 sheathed, single pair/triple/quad and multi-par, armoured, shipboard and offshore communication and control cables (250V)		Marine, offshore and industrial use.	Expires: 3 February 2013 IEC 60092-350 IEC 60092-353 IEC 60092-359 IEC 60332-3 Cat B & Cat. A/F IEC 60754-1 & 2 IEC 61034-1 & 2
	<u>U-HFAT m:</u> Armoured and	<u>No. of pairs</u> 1, 2, 3, 4, 7, 10, 12, 14, 19 & 24	<u>Cross sectional area (mm²)</u> 0.5 & 0.75		
	<u>U-HFAT m EMC</u> Armoured and electromagnetic- interference-resistant	<u>No. of triples</u> 1	<u>Cross sectional area (mm²)</u> 0.5 & 0.75		
		<u>No. of quads</u> 1	<u>Cross sectional area (mm²)</u> 0.5 & 0.75		
		Voltage Maximum conductor temperature:	250V 90°C		

M/M
 22 OCT 2007