

Type Approval Certificate Extension

This is to certify that Certificate No. 99/00116(E1) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	Draka Norsk Kabel AS		
PLACE OF PRODUCTION	Kjerraten 16 N-3001 Drammen Norway		
DESCRIPTION	Flame retardant, halogen free, low smoke emission, unarmoured power cable rated at 0.6/1kV		
TYPE	RU		
APPLICATION	Marine, offshore and industrial where the test specifications is satisfactory for the intended operation.		
SPECIFIED STANDARD	IEC60092-353 IEC60754-1 & 2	IEC60332-1 IEC61034-1 & 2	IEC60332-3-22

"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. 99/00116(E2) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 99/00116(E1) to which this extension should be attached.

Certificate No.	99/00116(E2)
Issue Date	05 December 2004
Expiry Date	3 August 2009
Sheet	1 of 1

Lloyd's Register EMEA
71 Fenchurch Street, London EC3M 4BS

M. Al Rifaie
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Document number 99/00116(E2)
Issue number 1

DESIGN APPRAISAL DOCUMENT

Date 05 December 2004	Quote this reference on all future communications LPA/DAPP/ECE/TA/W00610562/MHR/O-53416
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LLOYD'S REGISTER TYPE APPROVAL SYSTEM, 2002.
Issued to: DRAKA NORSK KABEL AS
for: FLAME RETARDANT, HALOGEN FREE, LOW SMOKE EMISSION,
UNARMoured CABLE RATED VOLTAGE 0.6/1kV
Type: RU
TYPE APPROVAL CERTIFICATE No. 99/00116(E2)

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	11.05.2004
Draka letter	08.07.2004
LR Oslo email	19.08.2004

Data Sheets

Halogen-free Unarmoured Power Cable, RU 0.6/1 kV	Undated
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TEST REPORTS

DNV Quality Assurance Certificate (97-OSL-SYMI-8009)	17.12.2003
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Also all the documentation listed on Design Approval Documents associated with Type Approval Certificates Nos. 99/00116 & 99/00116(E1)

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.

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.H.A. RUFAIE
Senior Electrical Engineer
Electrical and Control Engineering/Type Approval
London Plan Approval/ Lloyd's Register EMEA (London)
Tel. +44 (0) 20 7423 1849 Direct line

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	Remarks		
RU	<p>Flame retardant, halogen free, low smoke emission, unarmoured power cable</p> <p>Sizes (mm² csa)</p> <p>16, 25, 35, 50, 70, 95, 120, 150, 185, 240 & 300</p> <p>1.5, 2.5, 4 & 6</p> <p>1.5, 2.5, 4 & 6 + E</p> <p>1.5, 2.5, 4, 6, 10, 16, 25, 35, 50, 70 & 95</p> <p>120 & 150</p> <p>1.5 & 2.5</p> <p>Maximum operating conductor temp: 90°C</p> <p>Rated voltage: 0.6/1 kV</p>	<p>Marine, offshore and industrial in accordance with the test specifications</p>	<p>Expires: 3 August 2009</p> <p>Complies with IEC60092-353 IEC60332-1 IEC60332-3-22 IEC60754-1 & 2 IEC61034-1 & 2</p>		99/00116(E2)

-5 DEC 2004
MHM