


LR Type Approval Certificate Extension

This is to certify that Certificate No. 03/00020 for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

APPLICANT	Kabelbedrijven Draka Nederland B.V. Postbus 1117 1000 BC AMSTERDAM The Netherlands	
PLACES OF PRODUCTION	Draka Kabel B.V. Hamerstraat 2-4 1021 JV AMSTERDAM The Netherlands	Draka Kabel B.V. Abel Tasmanstraat 1 7821 AN EMMEN The Netherlands
	Draka Norsk Kabel AS Kjerraten 16 N-3001 Drammen Norway	
DESCRIPTION	Flame retardant, halogen free crosslinked polyethylene (XLPE) insulated, SFH1 over sheathed, braided, instrumentation and communication cable.	
TYPE	TXOI 250V	
APPLICATION	Fixed wiring on ships offshore and industrial installations.	
Certificate No.	03/30009(E1)	
Issue Date	24 February 2009	
Expiry Date	27 January 2013	
Sheet	1 of 2	


G.J. Vromans
Type Approval Department
Rotterdam

SPECIFIED STANDARDS

IEC 60092-3 ed 2.0
IEC 60092-351 ed 3.0
IEC 60092-359 SHF1 ed 1.2
IEC 60332-1 ed 1.0
IEC 60332-3-22, Cat. A , ed 1.0
IEC 60754-1&2, ed 2.0
IEC 61034-1&2, ed 3.0

RATINGS

- Rated voltage 250V
- Maximum continuous conductor temperature 90°C

<u>Conductor cross section</u>	<u>Number of pairs</u>
0,75 mm ²	1, 2, 4, 7, 14, 19 or 24

"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 LR of any modification or changes to the equipment in order to obtain a valid certificate."

The attached Design Appraisal Document No. ROT.TA/0990321/4 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

This certificate is no longer valid when Standards or Rules are amended.

All other details remain as the previous certificate no 03/00020 to which this extension should be attached.

This certificate is no longer valid when standards or rules are changed.

Certificate No. 03/30009(E1)
Issue Date 24 February 2009
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Sheet 2 of 2


G.J. Vromans
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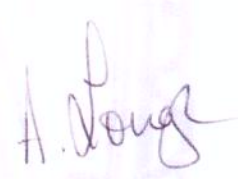
LR Type Approval Certificate

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

This certificate is issued to:

PRODUCER	Draka Norsk Kabel AS
PLACE OF PRODUCTION	Kjerraten 16 3001 Drammen Norway
DESCRIPTION	Flame retardant, halogen free, crosslinked polyethylene (XLPE) insulated, SFH1 over sheathed, braided, instrumentation and communication cable
TYPE	TXOI 250V
SPECIFIED STANDARDS	Construction: IEC 60092-3 Conductors: Annealed stranded copper wire Insulation: XLPE to IEC 60092-351 Bedding: No bedding Sheath: Halogen free thermoplastic compound to IEC 60092-359 SFH1 Armour: Tinned copper wire braid Flame retardance: IEC 60332-1 and IEC 60332-3-22 Category A Smoke emission: IEC 60754-1 & 2 and IEC 61034-1 & 2

Certificate No.	03/00020
Issue Date	28 January 2003
Expiry Date	27 January 2008
Sheet	1 of 2



A. Lough
Marine Support Group
London

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

APPLICATION Fixed wiring on ships, offshore and industrial installations

RATING 250V

RANGE TXOI

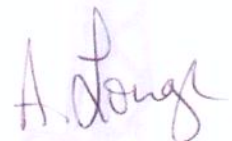
Number of pairs	Cross sectional area (mm ²)
1, 2, 4, 7, 10, 14, 19 or 24	0.75

OPERATIONAL LIMITATIONS Maximum conductor temperature: 85°C

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The attached Design Appraisal Document No. 03/00020 forms a part of this Certificate.

Certificate No. 03/00020
Issue Date 28 January 2003
Expiry Date 27 January 2008
Sheet 2 of 2



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London

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