



CERTIFICATE NUMBER

DATE

04-LD415243-PDA

30 January 2004

ABS TECHNICAL OFFICE

London Engineering Services

CERTIFICATE OF Design Assessment

This is to Certify that a representative of this Bureau did, at the request of
Draka Norsk Kabel A.S.

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate. It will remain valid for five years from the date of issue or until the Rules or specifications used in the assessment are revised (whichever occurs first).

PRODUCT: Ship and Offshore, Flame Retardant, Electrical Cable, Halogen Free

MODEL: TIOI (i) and (c) 250V ShipLine Plus Cables

ABS RULE: 2004 Steel Vessel Rules Section 4-8-3/9

OTHER STANDARD: IEC 60092-376, IEC 60332-3-22, IEC 60754-1 and -2, and IEC 61034-1 and -2;

AMERICAN BUREAU OF SHIPPING

Jean-Claude G. Dennemont

Engineering Type Approval Co-ordinator

Draka Norsk Kabel A.S.

Kjerraten 16
P.O. Box 369 Bragernes
Drammen
N-3001
Norway
Telephone: 47-32-24 90 00
Fax: 47-32-83 98 20

Product: Ship and Offshore, Flame Retardant, Electrical Cable, Halogen Free

Model: TIOI (i) and (c) 250V ShipLine Plus Cables

Intended Service:

Armoured cable for fixed installation on ships and offshore for instrumentation, control and communication systems.

Description:

TIOI (i) 250V Flame retardant cables-Individual screen with :stranded copper conductor 0.75mm² twisted in pairs and wrapped with polyester tape. Pairs are screened by aluminium backed polyester tape with tinned copper drain wire.

TIOI (c) 250V Flame retardant cables-overall shielded.

with :stranded copper conductor twisted in pairs/triple/quad and wrapped with polyester tape. Pairs/triple/quad are laid up and collectively screened by aluminium backed polyester tape with tinned copper drain wire.

Ratings:

Max operating conductor temperature: 85 °C
Operating Voltage: 250V

Service Restrictions:

Unit Certification is not required for this product.

Comments:

Not Applicable

Notes/Documentation:

Draka documents re: Art.no.886089 (TIOI (c) 250V 1x4x0.75 mm²); and Art.no.886088 (TIOI (c) 250V 4x2x0.75 mm²)

Term of Validity:

This product/model is covered under Product Design Assessment (PDA) Certificate # 04-LD415243-PDA, dated 30/Jan/2004. This PDA Certificate expires Jan of 2009. It will remain valid for the 5 years from date of issue or until the Rules or specifications used in the assessment are revised (whichever occurs first).

STANDARDS

ABS Rules:

2004 Steel Vessel Rules Section 4-8-3/9

International:

IEC 60092-376, IEC 60332-3-22, IEC 60754-1 and -2, and IEC 61034-1 and -2

