



CERTIFICATE NUMBER

DATE

12-LD835435-E-PDA

28 February 2012

ABS TECHNICAL OFFICE

London Engineering Department

CERTIFICATE OF DESIGN ASSESSMENT

This is to Certify that a representative of this Bureau did, at the request of
VDC - KINGS CROSS

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.

PRODUCT: **Cable, Communication**

MODEL: **Install Grade Speaker Cables paired and multicore LSZH 2x0.75mm (278-575-080), 2x1.50mm (278-515-080), 2x2.50 (278-525-080) twinax, 4x2.50 (278-542-080) and 8x2.50 (278-582-080) multicore.**

This Product Design Assessment (PDA) Certificate 12-LD835435-E-PDA, dated 28/Feb/2012 remains valid until 27/Feb/2017 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

AMERICAN BUREAU OF SHIPPING

Jean-Claude G. Dennemont
Engineer

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by the terms and conditions as contained in ABS Rules 1-1-A3/5 9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

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Intended Service:

Marine and Offshore speaker cable for applications ranging from 2x0.75mm for 100V line to 8x2.5mm for low impedance systems.

Description:

Low Smoke Zero Halogen twinaxial multicore speaker cable.

Ratings:

Not Applicable

Service Restrictions:

Unit Certification is not required for this product. In accordance with 4-8-3/9.5 of the Steel Vessel Rules 2012, cables are to be treated with approved flame-retardant material or the installation is to be provided with approved fire stop arrangements. If cables are installed in bunched configuration the installation is to be provided with approved fire stop arrangements.

Comments:

None

Notes / Drawings / Documentation:

This Product Design Assessment (PDA) is valid for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product. Use in a non-classed vessel, MODU or Facility is to be to the satisfaction of the manufacturer and purchaser. Intercond S.P.A. Test Report No.s 08/187/I *A*, 09/235/I*A*, 09/161/I*B*, 09/116/I*C*

Term of Validity:

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STANDARDS

ABS Rules:

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. The Rules applicable to this assessment are: 2012 Steel Vessel Rules 1-1-4/7.7, 4-8-3/9, 2012 MODU Rules 4-3-4/7

National:

NA

International:

IEC 60092-359, 60332-1, 60332-3-24, 60754-1, 60754-2, 61034-2