



CERTIFICATE NUMBER

01-LD234401C/1-PDA

DATE

25 April 2007

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  
**CMP Products**

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 as noted below or until the Rules or specifications used in the assessment are revised (whichever occurs first).

PRODUCT: Cable, Glands and Accessories

MODEL: A2FRC for conduit, ARRC conduit stopper, Adaptors, Reducers and Stopping Plugs

ABS RULE: 2007 Steel Vessel Rules Sections 1-1-4/7.7, 4-8-3/1.7, 4-8-3/13 and 4-8-4/27.5.

OTHER STANDARD: BS 6121, BS EN 50262, BS EN 60079 Part 0, 1, 7.; IEC 60079-1, USCG CFR - 46 (Section 33 of IEEE Std 45);

AMERICAN BUREAU OF SHIPPING

Jean-Claude G. Dennemont

Engineering Type Approval Co-ordinator

**CMP Products**

Glasshouse Street  
St. Peters  
Newcastle-upon-Tyne  
NE6 1BE  
United Kingdom  
Telephone: +44-191 265 7411  
Fax: +44-191 265 0581

---

**Product:** Cable, Glands and Accessories

**Model:** A2FRC for conduit, ARRC conduit stopper, Adaptors, Reducers and Stopping Plugs

**Intended Service:**

Use as a component of the cable glands for hazardous and/or non-hazardous locations on ships and offshore units.

**Description:**

Gland Accessories of Certified-Safe Type, Models A2FRC for conduit, ARRC conduit stopper, Adaptors, Reducers and Stopping Plugs as certified by a recognized testing laboratory.

**Ratings:**

Not applicable

**Service Restrictions:**

Unit Certification is not required for this product.

**Comments:**

The Component marking is to include the Code, such as Ex de IIC, Ex d IIC and Ex e II as applicable.  
The gland accessory is to be assembled strictly in accordance with the fitting instructions supplied with each component.

For NEC installations, marine shipboard cable may be used instead of rigid conduit, if installed fittings are approved for the specific hazardous location and cable type.

Explosion Proof and Flameproof equipment - Explosion Proof equipment must be approved as meeting UL 1203.  
Flameproof equipment must be approved as meeting IEC 60079-1.

**Term of Validity:**

This Design Assessment Certificate number 01-LD234401C/1-PDA, dated 25/Apr/2007 will expire on 24/Apr/2012 or at an earlier date should there be alterations to the product's design or changes to the referenced ABS Rules and other specifications, which affect the product. Product use on or after 1 January 2008, will be subject to compliance with the ABS Rules or specifications in effect when the vessel, MODU or facility is contracted. The product's acceptability on board ABS-classed vessels or facilities is defined in the service restrictions of this certificate.

**STANDARDS****ABS Rules:**

2007 Steel Vessel Rules Sections 1-1-4/7.7, 4-8-3/1.7, 4-8-3/13 and 4-8-4/27.5.

**National:**

BS 6121, BS EN 50262, BS EN 60079 Part 0, 1, 7.

**International:**

IEC 60079-1, USCG CFR - 46 (Section 33 of IEEE Std 45)

