



Confirmation of Type Approval

This is to certify that, pursuant to the Rules of American Bureau of Shipping (ABS), on 16/JUN/2008 the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) and a valid Product Design Assessment (PDA) for the below listed product, entitling the product to type approval. The validity of the Manufacturing Assessment is dependent on satisfactory audits as required by the Rules. The Product Design Assessment is valid only 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.

For Date of ABS Rules used for evaluation; Please refer to the ABS Rules below.

This Confirmation of Product Type Approval is valid as of the date shown above for the below listed product.

ABS makes no representations regarding type approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for evaluation.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that the Client has full responsibility for continued compliance with the evaluation standard, whether the standard is an ABS Rule or a non-ABS Rule. As specified in the ABS Rules, Unit Certification may be required in addition to Product Type Approval. Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product.

DRAKA CABLETEQ USA

Model Name(s): Bostrig MHV and MHV-LS

Presented to:

DRAKA CABLETEQ USA
22 JOSEPH EDWARNER BLVD
NORTH DIGHTON
MA 02764
United States

Intended Service:

Ship's Service Distribution, Marine Industrial Drives and Propulsion

Description:

Single and Multiconductor, Size 8 AWG through 1111 MCM, EPR insulated with XLPO or Neoprene Jacket; High Voltage Marine Shipboard Cable, single and multiconductor ethylene propylene rubber insulated, shielded, low smoke thermosetting crosslinked polyolefin or polychloroprene jacketed, power cable with optional overall aluminum or bronze braided armor and optional overall polychloroprene or low smoke thermosetting crosslinked polyolefin sheath, and optional grounding conductors.

Ratings:

IEEE-1580 (See Comments and Service restrictions) Voltage Class: 5kV, 8kV, and 15kV, 100% and 133% insulation levels; Insulation: Ethylene Propylene Rubber (EPR); Jacket: Low smoke thermosetting crosslinked polyolefin (Type L) or polychloroprene (Type N); Temperature Class: 90°C; Flame Tests: IEEE-1580; IEC (See Comments and Service Restrictions): Voltage Class: 1.8/3, 3.6/6, 6/10, 8.7/15, 12/20; Insulation: Ethylene propylene Rubber (EPR); Jacket: Low smoke thermosetting crosslinked polyolefin (Type SHF2) or polychloroprene (Type SE1); Temperature Class: 90°C; Flame Test: IEC 60332-3-22 Category "A, A/F".

Service Restrictions:

Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined. Installation and sizing criteria of IEEE-45 is to be applied when cable is used in accordance with IEEE-45 ratings. Installation and sizing criteria of IEC 60092-352 is to be applied when cable is used in accordance with IEC

	60092-354 ratings
Comments:	None
Notes / Documentation:	This Product Design Assessment (PDA) is valid only 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.
Term of Validity:	This Design Assessment Certificate number 03-HS339922C/4-PDA, dated 23/May/2008 will expire on 22/May/2013 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 2009, 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.
ABS Rules:	2008 Steel Vessel Rules 1-1-4/7.7, 4-8-3/9.1. 2008 MODU Rules 4-3-4/13.1.
National Standards:	Tests conducted as per Intertek Testing Service Report No. 563239 Revised date 12 February 2003 (in compliance with applicable requirements as per ICEA S-93-639; UL 1072, 30 June 2006; IEEE Std. 1580-2001, June 14, 2001).
International Standards:	IEC Pub. 60092-354, 2003-06; IEC Pub. 60502-2, 1998-11, Flammability Test as per IEC Pub. 60332-3-22, Cat.A.
Government Authority:	
EUMED:	
Others:	Type "N" Polychloroprene BIW Standards J-120 - J-129; Low Smoke/Zero Halogen BIW J-107, J-108, J-112 - J-117, J-119.



Manager, ABS Programs

ABS has used due diligence in the preparation of this certificate and it represents the information on the product in the ABS Records as of the date and time the certificate was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS. Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.