



Confirmation of Product Type Approval

Company Name: HAWKE INTERNATIONAL

Address: OXFORD STREET WEST, ASHTON-UNDER-LYNE, LANCASHIRE, United Kingdom, OL7 0NA

Product: Cable, Connector System

Model(s): ControlEx, ControlEx Mk IV, PowerEx and InstrumEx.

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	17-LD1653736-PDA	12-JUL-2017	11-JUL-2022
Manufacturing Assessment (MA)	21-4624373	03-MAR-2021	20-MAR-2026
Product Quality Assurance (PQA)	NA	NA	NA

Tier

3 - Type Approved, unit certification not required

Intended Service

ABS classed vessels and offshore facilities in accordance with the listed ABS Rules and International standards.

Description

Control, power and instrumentation connectors and receptacles as listed on accompanying product listin.

IEC Zone 1 and 2 Hazardous locations on ships and offshore units

Ratings

InstrumEx: 250V AC, 10 Amps Max, 60V DC, 0.5 Amps Max, IP66/67;

ControlEx: 660V AC/DC, 125 Amps Max, IP66/67;

PowerEx: 750V AC/DC, 780 Amps Max, IP66/67

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.

All electrical equipment intended for installation in hazardous areas is to be Ex rated based on the class of the hazardous area at its location of installation. Certificates in this regard are to be presented to the ABS Surveyor for verification on a case basis.

ATEX certified equipment is not to be installed in hazardous areas on US vessels unless it can be prove

to have been tested to the applicable IEC 60079 series standards by an independent laboratory accepted by the U.S Coast Guard. USCG notice 01-12 (February 7, 2012)

Compliance with the IMO MODU Code 2009 section 6.6, Reg. II-2/19 /3.2of SOLAS, SOLAS II#1/45/10 is to be verified by the ABS attending surveyor.

Comments

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

(1) Glands/connectors to be installed in accordance with 4-8-3/9.1 of the ABS Rules for Building and Classing Steel Vessels 2017 and 4-3-3/9.1.3 of the ABS Rules for Building and Classing Mobile Offshore Drilling Units 2017.

(2) Installation in hazardous areas is to comply with 4-8-4/27.5 of the Rules for Building and Classing Steel Vessels 2017 and 4-3-3/9.1.2 of the ABS Rules for Building and Classing Mobile Offshore Drilling Units 2017.

(3) Please refer to manufacturer instruction manual for equipment installation.

(4) Installation requirements as these are detailed on applicable IECEx or ATEX certificates are to be complied with.

(5) See Report EC Type-Examination Certificates IECEx BAS 06 0018X, IECEx BAS 12 0006X, IECEx BAS 06 0019X and Hazardous area connectors selection overview for more details.

Notes, Drawings and Documentation

Drawing No. 2633583, Certificate of Compliance - Connectors (09.01.15), Revision: -, Pages: 8

Drawing No. GB/BA/ExTR07.0015/00, IECEx Test Report - InstrumEx Connector (15.02.2007), Revision: -, Pages: 5

Drawing No. GB/BAS/ExTR06.0017/00, IECEx Test Report - InstrumEx Connector (27.06.2006), Revision: -, Pages: 27

Drawing No. GB/BAS/ExTR06.0018/00, IECEx Test Report - PowerEx Connector (20.02.2006), Revision: -, Pages: 23

Drawing No. GB/BAS/ExTR06.0124/00, IECEx Test Report - InstrumEx Connector (20.09.2006), Revision: -, Pages: 4

Drawing No. GB/BAS/ExTR07.0139/00, IECEx Test Report - InstrumEx Connector (18.09.2007), Revision: -, Pages: 4

Drawing No. GB/BAS/ExTR08.0094/00, IECEx Test Report - InstrumEx Connector (24.04.2008), Revision: -, Pages: 3

Drawing No. GB/BAS/ExTR08.0129/00, IECEx Ex Test Report - ControlEx Connector (21.07.2008), Revision: -, Pages: 20

Drawing No. GB/BAS/ExTR09.0016/00, IECEx Test Report - InstrumEx Connector (27.05.2009), Revision: -, Pages: 6

Drawing No. GB/BAS/ExTR09.0120/00, IECEx Test Report - Range of Controlex Connectors (10.06.2009), Revision: -, Pages: 3

Drawing No. GB/BAS/ExTR1.0014/00, IECEx Test Report - ControlEx Connector (10.06.2009), Revision: -, Pages: 26

Drawing No. GB/BAS/ExTR11.0054/00, IECEx Test Report - InstrumEx Connector (03.03.2011), Revision: -, Pages: 4

Drawing No. GB/BAS/ExTR11/0273/00, IECEx Test Report - InstrumEx Connector (26.03.2012),
Revision: -, Pages: 5

Drawing No. GB/BAS/ExTR12.0168/00, IECEx Test Report - PowerEx Connector (02.07.2012),
Revision: -, Pages: 3

Drawing No. GB/BAS/ExTR12.0222/00, IECEx Test Report - PowerEx Connector (22.08.12), Revision: -,
Pages: 3

Drawing No. GB/BAS/ExTR12/0094/00, IECEx Test Report - InstrumEx Connector (12.04.12), Revision:
-, Pages: 3

Drawing No. GB/BAS/ExTR12/0313/00, IECEx Test Report - ControlEx Connector - incl MKIV
(14.12.12), Revision: -, Pages: 5

Drawing No. GB/BAS/ExTR13.0215/00, IECEx Test Report - ControlEx MKIV Connector (23.09.2013),
Revision: -, Pages: 6

Drawing No. GB/BAS/ExTR13.0218/00, IECEx Test Report - ControlEx Connector (25.09.2013),
Revision: -, Pages: 7

Drawing No. GB/BAS/ExTR13.0219/00, IECEx Test Report - PowerEx Connector (25.09.2013),
Revision: -, Pages: 7

Drawing No. GB/BAS/ExTR13.0220/00, IECEx Test Report - ControlEx MKIV Connector (25.09.13),
Revision: -, Pages: 8

Drawing No. GB/BAS/ExTR14.0034/00, IECEx Test Report - ControlEx Connector - incl MKIV
(22.01.2014), Revision: -, Pages: 6

Drawing No. GB/BAS/ExTR14.0183/00, IECEx Test Report - ControlEx MKIV Connector (10.09.2014),
Revision: -, Pages: 8

Drawing No. GB/BAS/ExTR14.0303/00, IECEx Test Report - ControlEx MKIV Connector (23.10.2014),
Revision: -, Pages: 4

Drawing No. GB/BAS/ExTR14.0307/00, IECEx Test Report - InstrumEx Connector (26.01.2015),
Revision: -, Pages: 43

Drawing No. GB/BAS/ExTR15.0018/00, IECEx Test Report - PowerEx Connector (09.02.2015),
Revision: -, Pages: 5

Drawing No. GB/BAS/ExTR15.0019/00, IECEx Test Report - ControlEx MKIV Connector (09.02.2015),
Revision: -, Pages: 6

Drawing No. GB/BAS/ExTR15.0115/00, IECEx Test Report - PowerEx Connector (18.06.2015),
Revision: -, Pages: 4

Drawing No. GB/BAS/ExTR16.0034/00, IECEx Test Report - InstrumEx Connector (01.02.2016),
Revision: -, Pages: 5

Drawing No. Hazardous Area Connectors, Selection Overview, Revision: -, Pages: 7

Drawing No. IECEx BAS 06.0018X, IECEx Certificate of Conformity - Instrumex Bulkhead Plug - Socket
Connector (01.02.2016), Revision: 10, Pages: 4

Drawing No. IECEx BAS 06.0019X, IECEx Certificate of Conformity - PowerEx In-line Plug - Socket
Connectors (18.06.2015), Revision: 5, Pages: 4

Drawing No. IECEx BAS 12.0006X, IECEx Certificate of Conformity - MKIV ControlEx Connector
(09.02.2015), Revision: 7, Pages: 7

Drawing No. LRQ 0964946, ISO 9001:2008 Certificate, Revision: -, Pages: 1

Drawing No. PDA Revalidation Request 12-LD922927A-PDA, PDA Revalidation Request, Revision: -,

Pages: 1

Term of Validity

This Product Design Assessment (PDA) Certificate 17-LD1653736-PDA, dated 12/Jul/2017 remains valid until 11/Jul/2022 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.

ABS Rules

- Steel Vessels (2017): 1-1-4/7.7, 1-1-A3&A4; 4-1-1/7.15; 4-8-3 /1.7, 4-8-3/1.11, 4-8-3/13; 4-8-4-27.5.1;
- Steel Vessels Under 90 Meters (295 Feet) in Length (2017): 1-1-4/7.7, 1-1-Appendix 3 & 4; 4-1-1/37, 4-6-3/11.1.1 (a);
- Offshore Support Vessels (2017): 1-1-4/7.7, 1-1-A3&A4; 4-1-1/7.15, 4-8-3 /1.7, 4-8-3/13;
- Facilities on Offshore Installations (2017): 1-1-4/9.7, 1-1-A2&A3;
- Mobile Offshore Drilling Units (2017): 1-1-4/9.7, 1-1-A3&A4; 4-1-1/7.9; 4-3-3/9.1.2, 4-3-3/9.1.3; 6-1-1/9, 6-1-1/13;
- Steel Vessels for Service on Rivers and Intracoastal Waterways (2017): 1-1-4/7.7, 1-1-A3&A4; 4-1-1/21, 4-5-3/11.1.1;
- High Speed Crafts (2017): 1-1-4/11.9, 1-1-A2&A3; 4-1-1/37, 4-6-3/9.1.1;
- Steel Barge Rules (2017): 1-1-4/7.7, 1-1-A3&A4;

International Standards

IEC60079-0: 2011 Ed. 6.0; IEC60079-1: 2014-06 Ed. 7.0; IEC60079-7: 2006-07 Ed. 4.0; IEC60079: 2013-2014 Ed. 2.0; IEC61241-0: 2004 Ed. 1.0; IEC 61241-1: 2004 Ed. 1.0

CAN/CSA-C22.2 No. 0-10; CAN/CSA-C22.2 No. 0.4:04; C22.2 No. 182.1-13; C22.2 No. 182.3-M1987; CAN/CSA-C22.2 60079-0:11; CAN/CSA-C22.2 60079-1:11; CAN/CSA-C22.2 60079-7:12

UL 1977, 2nd Ed.; UL 60079-0, 6th Ed.; UL 60079-1, 6th Ed.; UL 60079-7, 4th Ed.

EU-MED Standards

NA

National Standards

NA

Government Standards

NA

Other Standards

NA



A handwritten signature in blue ink, appearing to read "Joseph W. White".

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 06-Jul-2021 8:55

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 is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. 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 this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

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.