



Marine & Offshore

Certificate number: 41939/B1 BV

File number: ACE 14/163/3

Product code: 2662D

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

*This certificate is issued to***ERICO FRANCE SARL**
ANDREZIEUX BOUTHEON - FRANCE*for the type of product***INSULATED BUSBARS (LOW VOLTAGE)**
nVent ERIFLEX Insulated Braided conductor IBS/IBSB/IBSBR ADVANCED**Requirements:**

Bureau Veritas Rules for the Classification of Steel Ships

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 15 Mar 2026**For Bureau Veritas Marine & Offshore,**

At BV LYON, on 01 Apr 2021,

Florian Aulen



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

The electronic version is available at: <http://www.veristarp.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=aqgvaj39qw>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

Product model or type designation:

- ERIFLEX Insulated Braided conductor **IBS/IBSB/IBSBR ADVANCED**

Material	: electrolytic copper Cu-ETP, TPE
Dielectric Strength	: 20 kV/mm
Flammability Rating	: UL 94V-0
Max Working Voltage, IEC/UL 758	: IEC/UL 758: 1000VAC, 1.500VDC
Max Working Voltage, UL 67	: 600 VAC/DC
Working Temperature	: +115°C Max
Wire Diameter	: 0,15 mm
Cross-sectionnal	: 25 to 240mm ²
Length	: 100mm to 5m

2. DOCUMENTS AND DRAWINGS:

Erico:

- Technical documentation No. IBSADV001, Rev. AG, dated 01 Dec 2020.
- IBSB_IBSBR_Insulated_Braided_Conductor_for_Circuit_Breakers, dated 2015
- Data Sheet Insulated Braided Conductor (IBSB & IBSBR), dated 2012
- Feature Products, dated 2015
- Specification for IBS & IBSB Advanced, dated 01 Jun 2018
- Cross reference table ref : P1373S-WWEN, dated 2018

3. TEST REPORTS:

APAVE:

- Test Report for range of insulated shunt conductor No. 7474740-001-1-ang ,dated 28 March 2014
- Test Report for range of insulated braided conductor No. 6943742-001-1-ang ,dated 12 July 2013
- Test Report N° 10075935-001-1, dated 21 dec 2017
- Test Report N° 10075936-001-1, dated 28 nov 2017

4. APPLICATION / LIMITATION:

- 4.1 - According to BV Rules for the Classification of Steel Ships and IEC 60092 series.
- 4.2 - The nominal current on the busbars will be calculated with an ambient temperature of 45°C.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The above products are to be supplied by **ERICO FRANCE SARL** in accordance with the type described in this certificate.

5.2 - This type of product is within the category DBV of Bureau Veritas Rule Note NR320.

5.4 - For information, **ERICO FRANCE SARL** has declared to Bureau Veritas the following production sites:

ERICO FRANCE SARL
Rue Benoît-Fourneyron
B.P.31
Z.I. Sud
42161 ANDREZIEUX BOUTHEON
FRANCE

ERICO EUROPE BV
Jules Verneweg 75
5015 BG Tilburg
5015 TILBURG
NETHERLANDS

6. MARKING OF PRODUCT:

- Trade name,
- Serial number,
- Equipment type number or model identification under which it was type-tested.

7. OTHERS:

7.1 - It is **ERICO FRANCE SARL**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate N° 41939/B0 BV issued on 15 Mar 2021 by the Society.

***** END OF CERTIFICATE *****