

TYPE APPROVAL CERTIFICATE

Certificate no.: TAE00003B8 Revision No:

This is to certify:				
that the Electric Bus Bar				
with type designation(s) ERIFLEX insulated braided conductor IBSADV and IBSBADV				
issued to ERICO Europe B.V. Tilburg, Noord-Brabant, Netherlands				
is found to comply with DNV rules for classification – Ships, offshore units, and high speed and light craft				
A pullocation.				
Application:				
Products approved by this certificate are accepted for installation on all vessels	s classed by DNV.			
	s classed by DNV.			
Products approved by this certificate are accepted for installation on all vessels	for DNV			

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

Form code: TA 251

Revision: 2023-09

www.dnv.com

Page 1 of 3



Page 1 of 3

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Job ID: **262.1-024834-2** Certificate no.: **TAE00003B8**

Revision No: 1

Name and Place of manufacturer

ERICO France SARL, Rue Charles Dalliére BP31, 42161 Andrézieux Bouthéon Cedex, France.

Product description

nVent ERIFLEX IBS and IBSB Advanced Flexible single-phase insulated braided conductor, insulation voltage 1000 VAC/1500 VDC, flammability in accordance to UL 94 V0. Insulation material: Low smoke and Halogen free Thermoplastic elastomer.

Type name	Description	Current*	Joule- integrale***	Rated short-circuit peak I _{pk} ***
		(A)	(A ² s)	(kA)
IBSADV 25	IBS ADV 25-230 to IBS ADV 25-1030	125	2.27x10 ⁷	14
IBSBADV 50	IBSB ADV 50-230 to IBSB ADV 50-1030	250	8.17x10 ⁷	30
IBSBADV 70	IBSB ADV 70-230 to IBSB ADV 70-1030	300	1.58x10 ⁸	30
IBSBADV 100	IBSB ADV 100-230 to IBSB ADV 100-1030	350	3.31x10 ⁸	70
IBSBADV 120	IBSB ADV 120-230 to IBSB ADV 120-1030	400	4.67x10 ⁸	70
IBSBADV 185	IBSB ADV 185-230 to IBSB ADV 185-1030	500	8.81x10 ⁸	70
IBSBADV 240	IBSB ADV 240-230 to IBSB ADV 240-1030	630	1.52x10 ⁹	80

Connection: Busbar to electrical component. Air temperature around bus-bar 45 °C.

Application/Limitation

To be used inside switchboards/enclosures onboard ships.

nVent ERIFLEX Advanced Insulated Braided Conductor used for one outgoing circuit may be rated on the basis of the reduced short-circuit stress occurring on the load side of the respective short-circuit productive device as stated in IEC 61439-1 item 8.6.1 part 1. nVent ERIFLEX Advanced Insulated Braided Conductor used as a connection from the main bus-bar to a dropper with several outgoing circuits shall be designed in accordance with the requirements 61439-1 item 8.6.1 part 2.

To be installed in accordance with the manufacturer's instruction. Max. 630 mm between the supports.

Type Approval documentation

Short-circuit test and voltage after IEC 61439-1. Flame retardance test after UL 94 V0.

Marking of product

nVent ERIFLEX IBSADV / IBSBADV

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine tests (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance

Form code: TA 251 Revision: 2023-09 www.dnv.com Page 2 of 3

^{**} Joule-integrale is based on testing one conductor per phase with a 1 s duration.

^{***} Rated Short-Circuit Peak of the conductor from 1 s duration tests.



Job ID: **262.1-024834-2** Certificate no.: **TAE00003B8**

Revision No: 1

• Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Assessment to be performed at 2 and 3.5 year and renewal.

END OF CERTIFICATE

Form code: TA 251 Revision: 2023-09 www.dnv.com Page 3 of 3