



TYPE APPROVAL CERTIFICATE

Certificate No:
TAE00002JA
Revision No:
1

This is to certify:

That the Cable Ties

with type designation(s)
J/JW/JLT/JLTW/JMT/JMTW Series

Issued to

JEONO Co., Ltd.
Gyeonggi-do, Korea, Republic of

is found to comply with
DNV rules for classification – Ships, offshore units, and high speed and light craft

Application :

For fixing cables on board ships and offshore units

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Material	Non-metallic
Suitable for open deck	Type -W only

Issued at **Busan** on **2022-04-20**

for **DNV**

This Certificate is valid until **2026-12-31**.

DNV local station: **Seoul**

Approval Engineer: **Dong Ho Park**

Hanwee Low
Head of Section

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.

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.



Product description

Type: Non-metallic cable ties

J- / JW-Series (Width 2.5 to 12.7mm) Locking cable tie

JLT- / JLTW-Series (Width 12.7mm) Lashing cable tie

JMT- / JMTW-Series (Width 2.5mm) Marker cable tie

Material: Nylon 66 Resin

Colour: Natural(N) or Black(B)

Loop tensile strength: Type 2 - Retain 100% strength after testing

- Loop tensile strength, 2.5mm width 80 N
- Loop tensile strength, 3.6mm width 180 N
- Loop tensile strength, 4.8mm width 220 N
- Loop tensile strength, 6.0mm width 440 N
- Loop tensile strength, 7.6mm width 540 N
- Loop tensile strength, 9.0mm width 800 N
- Loop tensile strength, 12.7mm width 1150 N

Max. tested operating temperature: 85 °C

Min. tested operating temperature: -60 °C

Min. tested installation temperature: -40 °C

Contribution to fire: Non-flame propagating

Resistance to UV light: Type -W only

Resistance to corrosion: Resistant

Part No.	Length	Width
J-100	103	2.5
J-162	162	2.5
J-202	200	2.5
J-140	148	3.6
J-203	200	3.6
J-303	300	3.6
J-200	201	4.8
J-250	250	4.8
J-300	300	4.8
J-373	368	4.8
J-270	270	6.3
J-370	370	7.6
J-450	450	9.0
J-530	530	9.0
J-650	650	9.0
J-780	780	9.0
J-300EH	300	12.7
J-400EH	400	12.7
J-540EH	540	12.7
J-780EH	780	12.7

Part No.	Length	Width
JW-100	103	2.5
JW-162	162	2.5
JW-202	200	2.5
JW-140	148	3.6
JW-203	200	3.6
JW-303	300	3.6
JW-200	201	4.8
JW-250	250	4.8
JW-300	300	4.8
JW-373	368	4.8
JW-270	270	6.3
JW-370	370	7.6
JW-450	450	9.0
JW-530	530	9.0
JW-650	650	9.0
JW-780	780	9.0
JW-300EH	300	12.7
JW-400EH	400	12.7
JW-540EH	540	12.7
JW-780EH	780	12.7

Part No.	Length	Width
JLT-540	540	12.7

Part No.	Length	Width
JLW-540	540	12.7

Part No.	Length	Width
JMT-1M	105	2.5
JMT-2M	200	2.5

Part No.	Length	Width
JMTW-1M	105	2.5
JMTW-2M	200	2.5

Application/Limitation

Non-UV resistant cable ties are not to be used on open deck.

Type Approval documentation

Document no. : PJ-02-02 dated 2011-12-21
 Test report : J-ITR-DNV (2017) dated 2017-04-17
 TAH-000198/000199 dated 2017-01-11

Renewal assessment report dated 2017-09-26
 Type approval renewal assessment report for TAE00002JA, DNV Seoul 2022-01-05.

Tests carried out

IEC 62275 (2018)	Installation test
	Minimum installation temperature test
	Minimum operation temperature test
	Loop tensile strength test for cable tie retaining 100% strength after heat aging, temperature cycling & temperature cycling-vibration test
	Non-Flame Propagation Test (Needle Flame Test)
	Resistance to UV light
	Resistance to corrosion

Marking of product

Manufacturer's logo and part no.

Periodical assessment

The scope of the retention/renewal survey is to verify that the conditions stipulated for the Type Approval Certificate are complied with and that no alterations are made to the design and/or the material of the product.

The main elements of the survey are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Check of results from Production Sample Tests (PST and Routine Tests (RT) (if not available, PST and RT are to be carried out)
- Review of type approval documentation
- Review of possible changes in design, material and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE