

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Electric Power Cable**with type designation(s)
HFX-PSW

Issued to

TMC Co., Ltd
Cheonan-si Chungcheongnam-do, Republic of Korea

is found to comply with

Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det Norske Veritas' Offshore Standards**IEC 60092-350 (2014-08)****IEC 60092-353 (2011-08)****IEC 60332-1****IEC 61034-1/2 Ed. 3.1 (2013-06)****IEC 60754-1/2 (2011-11)****Application :****Switchboard wires.****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.****Voltage class (kV) 0.6/1****Temp. class (°C) 90**This Certificate is valid until **2021-06-30**.Issued at **Busan** on **2016-07-01**DNV GL local station: **Seoul**Approval Engineer: **Byoung So Lee**for **DNV GL**

Baeg Soon Choi
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.

Job Id: **262.1-012329-2**
Certificate No: **TAE000018W**

Product description

Type : HFX-PSW 0.6/1 kV, Switchboard wires

Conductors: Stranded tinned annealed copper class 5
Core insulation: HF 90

Number of cores x conductor cross- section mm ²
1 x 0.75
1 x 1.0
1 x 1.5
1 x 2.5
1 x 4
1 x 6
1 x 10
1 x 16
1 x 25
1 x 35
1 x 50
1 x 70
1 x 95

Type Approval documentation

Tests carried out

IEC 60092-353 (2011)
IEC 60332-1 (2004-07)
IEC 60754-1/-2 (1994-01/1991-07)
IEC 61034-1/-2 (2005-04)

Marking of product

0.6/1 kV – HFX-PSW – Size – IEC 60332-1 – TMC – Year of manufacture – Length

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Periodical assessment

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

The main elements of the survey are:

- Inspection of factory samples. selected at random from the production line (where practicable)
- Results from Production Sample Tests (PST) and Routines (RT) checked (if not available tests according to PST and RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Survey to be performed at least every second year.

END OF CERTIFICATE