

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Electric Power Cable

with type designation(s)
DSRC, TSRC, FA-DSRC, FA-TSRC

Issued to

Kukdong Electric Wire Co., Ltd.
Jincheon-gun Chungcheongbuk-do, Korea

is found to comply with
DNV GL rules for classification – Ships, offshore units, and high speed and light craft
JIS C 3410:2010

Application :

General power and lighting. Control.

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

Rated voltage (kV) 0.6/1 kV
Temp. class (°C) 95

Issued at **Busan** on **2018-01-25**

This Certificate is valid until **2022-06-30**.

DNV GL local station: **Seoul**

for **DNV GL**

Approval Engineer: **Eun Jin Lee**

Michael Jost Auf der Stroth
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.



Product description

Type : DSRC, TSRC, FA-DSRC, FA-TSRC

Conductors : Tinned annealed stranded copper conductor, Class 2
Core insulation : Silicone rubber
Metal covering : Glass yarn braid with heat resisting compound
Galvanized steel wire braid (C), painted.

Number Of Cores X Conductor- section	
mm ²	
DSRC, FA-DSRC	
2	x 1.5
2	x 2.5
2	x 4
TSRC, FA-TSRC	
3	x 1.5
3	x 2.5
3	x 4

Application/Limitation

The requirement of SOLAS Chapter II-1 Part D Reg.45, 5.2 to limit Fire Propagation along Bunches of cables or wires are fulfilled without any additional measure for 'FA-' type only.

Type Approval documentation

Tests carried out

Standard	Issued	Limitation
JIS C3410	2010	
IEC 60332-1	2004	
IEC 60332-3-22	2009	Bunch test Cat.A 'FA-' type only.

Marking of product

0.6/1 kV – DSRC or TSRC – Size – Kukdong – Year of manufacture – Length

0.6/1 kV – FA-DSRC or FA-TSRC – Size – Kukdong – IEC 60332-3 Cat.A – Year of manufacture – Length

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 product.

The main elements of the survey are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Check of the 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



Job Id: **262.1-012905-3**
Certificate No: **TAE0000231**

- 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