DNV·GL

Certificate No:
TAE000026Z

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Switchboard wire

with type designation(s)
Texiline HF90 0,6/1 kV

Issued to
AMO Specialkabel AB
ALSTERMO, Sweden

is found to comply with
Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det Norske Veritas' Offshore Standards
IEC 60092-353 (2016-09)
IEC 61034-1/2 Ed. 3.1 (2013-06)
IEC 60754-1 (2011-11)

Application :

General power and lighting
Low Halogen
Low smoke

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

Issued at **Høvik** on **2017-08-08**
This Certificate is valid until **2017-12-31**.
DNV GL local station: **Malmö**

Approval Engineer: **Ivar Bull**

for **DNV GL**

Andreas Kristoffersen
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.

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Job Id: **262.1-008708-3**
Certificate No: **TAE000026Z**

Product description

Texiline HF90 0,6/1 kV

Construction: Single wire
Conductors: Plain or tinned stranded copper. Class 5
Core insulation: HF90

Conductor cross-section	Overall diameter
mm^2	mm
1,0	2,7
1,5	3,0
2,5	3,4
4,0	4,0
6,0	4,6
10,0	5,4

Conductor cross-section	Overall diameter
mm^2	mm
16,0	6,9
25,0	9,0
35,0	10,3
50,0	11,9
70,0	14,3
95,0	15,1

Conductor cross-section	Overall diameter
mm^2	mm
120,0	16,8
150,0	19,3
185,0	21,7
240,0	25,8

Application/Limitation

Wires with flexible conductors (IEC 228 class 5) are to be terminated using approved compression terminals intended and designed for these conductors.

Type Approval documentation

Tests carried out

Standard	Release	General description	Limitation
IEC 60092-350	2008-02	General construction and test methods of power, control and instrumentation cables for shipboard and offshore applications	
IEC 60092-351	2004-04	Insulating materials for shipboard and offshore units, power, control, instrumentation, telecommunication and data cables	
IEC 60092-353	*2011-08*	*Electrical installations in ships - Part 353: Power cables for rated voltages 1 kV and 3 kV*	*0,6/1 kV*
IEC 60332-1	2004-07	Tests on electric and optical fibre cables under fire conditions – Part 1-1:Test for vertical flame propagation for a single insulated wire or cable – Apparatus	Flame retardant small scale
IEC 60754-1	2011-11	Test on gases evolved during combustion of materials from cables - Part 1: Determination of the halogen acid gas content	Low Halogen: <0,5% Halogen

Marking of product

TEXILINE HF90 - size - 1 kV

Certificate Retention Survey

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 on 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 shall be performed at least every second year.

END OF CERTIFICATE