



# TYPE APPROVAL CERTIFICATE

Certificate No:  
**TAE00002HW**  
Revision No:  
**1**

## This is to certify:

**That the Termination and Joint for Cable**

with type designation(s)  
**AFN and AIN**

Issued to  
**NEXANS network solutions NV**  
**Erembodegem, Belgium**

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

## Application :

**Products approved by this certificate are accepted for installation on all vessels classed by DNV.**

Issued at **Høvik** on **2023-05-03**

for **DNV**

This Certificate is valid until **2027-12-31**.

DNV local unit: **Belgium CMC**

Approval Engineer: **Nicolay Horn**

**Frederik Tore Elter**  
**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

Medium Voltage Indoor and Outdoor Termination kit for 10 (12) kV, 15 (17.5) kV, 20 (24) kV, 30 (36) kV & 36 (42) kV.  
 Type: AFN & AIN

### AFN Outdoor Terminations

Termination type	Voltage Um (kV)	Conductor size (mm)	
		min	max
AFN 10	12	25	1200
AFN 20	24	35	1200
AFN 30	36	50	1000
AFN 36	42	70	1000

### AIN Indoor Terminations

Termination type	Voltage Um (kV)	Conductor size (mm)	
		min	max
AIN 10	12	25	1200
AIN 20	24	35	1200
AIN 30	36	50	1000
AIN 36	42	150	1000

## Application/Limitation

Installation has to be done in accordance with the installation instructions.  
 Use in net with voltages above 15 (17.5) kV to be accepted case by case

## Type Approval documentation

### Technical info:

AFN Slip On Outdoor Termination and AIN Slip On Indoor Termination, datasheet from Nexans.

### Test reports:

Elektrotechnisches Prüflaboratorium Test Certificates no. 00.10.24.560 dated 2000-11-02, 00.10.24.563 and 99.02.21..041 dated 199-04-26. IPH Type Test Report nos. 1569.0180.2.109 dated 2002- 07-29, 1569.660.9.526 dated 2002-04-23. Euromold – ELAB Test Report no. TE 113 01 08 dated 2002-10-18. Electrical Testing Laboratory Investigation Report no. TE 113 11 02 dated 2011-07-27

## Tests carried out

Tested according to CENELEC HD 629.

## Marking of product

Nexans – Product Description – Voltage class.

## 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
- 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