

# TYPE APPROVAL CERTIFICATE

**This is to certify:**

**That the Termination and Joint for Cable**

with type designation(s)  
**ITK and OTK**

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

is found to comply with  
**DNV GL 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 GL.**

Issued at **Høvik** on **2019-07-09**

for **DNV GL**

This Certificate is valid until **2024-07-08**.

DNV GL local station: **Antwerp**

Approval Engineer: **Nicolay Horn**

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**Trond Sjøvåg**  
**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.



## Name and place of manufacturer

Nexans Power Accessories France  
08350 Bonchery  
France

## Product description

ITK: Medium Voltage Cold-Shrinkable Indoor Termination up to 22 (24) kV Type: ITK

Termination type	Voltage Um (kV)	Strike distance L (mm)	Diameter over core insulation (mm <sup>2</sup> )		Conductor sizes (mm)	
			min	max	min	max
ITK 212	12	300	14	33	50	400
ITK 312	12	650	30	50	400	1000
ITK 224	24	400	14	33	25	240
ITK 324	24	650	30	50	300	800

OTK: Medium Voltage Cold-Shrinkable Outdoor Termination up to 22 (24) kV Type: OTK

Termination type	Voltage Um (kV)	Strike distance L (mm)	Diameter over core insulation (mm <sup>2</sup> )		Conductor sizes (mm)	
			min	max	min	max
OTK 212	12	260	14	33	50	400
OTK 312	12	300	30	50	500	1000
OTK 224	12	260	19	33	50	240
OTK 324	12	300	30	50	300	630

## Application/Limitation

Installation has to be done in accordance with the installation instructions.

## Type Approval documentation

### Technical info:

"Cold Shrinkable Indoor Termination up to 24 kV and "Cold Shrinkable Outdoor Termination up to 24 kV", datasheet from Nexans.

### Test reports:

EUROMOLD - ELAB test report nos. TE 113 00 18 dated 2001-05-07, TE 113 03 01 & TE 113 03 02 dated 2003-10-09 and TE 213 02 23 dated 2002-10-18.

## Tests carried out

Tested according to cenelec HD 629.1 S1 (1996-11)

## Marking of product

Nexans – Factory Identification – 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.



Job Id: **262.1-028514-1**  
Certificate No: **TAE000039M**

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