

# TYPE APPROVAL CERTIFICATE

## This is to certify:

**That the Mechanical Cable Lugs and Termination**

with type designation(s)  
**GPH**

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 Germany GmbH  
 95028 Hof,  
 GERMANY

## Product description

Low Voltage mechanical connector with sector chanel up to 0.6/1 (1.2) kV Type: GPH®

Connector cat. no.*	Range CU** acc. To IEC 60228 (mm <sup>2</sup> )			Dimintions (mm)		
	round strand	sector strand	round solid	L	D	d
D1.5-16 SV(-T/-S)-V-K	1.5-16		1.5-16	30	12	6.1
D1.5-16 SV(-T/-S)-V	1.5-16		1.5-16	30	12	6.1
D1.5-35 SV(-T/-S)-V-K	1.5-35	35	1.5-35	36	12	9.0
D10-35 SV(-T/-S)-V-K	10-35	35	10-35	36	12	9.0
D25-50 SV(-T/-S)-V-K	25-50	35-50	25-35	36	18	10.0
D4-50 SV(-T/-S)-V-K	4-50	35-50	4-35	36	18	10.0
D16-95 SV(-T/-S)-V-K	16-95	35-95	16-35	55	25	14.0
D25-150 SV(-T/-S)-V-K	25-125	35-150	16-35	70	28	17.0
D35-150 SV(-T/-S)-V-K	35-150	35-150	35	70	28	17.0
D25-185 SV(-T/-S)-V-K	25-185	35-185	25-35	80	32	19.0
D70-185 SV(-T/-S)-V-K	70-185	70-185		80	32	19.0
D50-240 SV(-T/-S)-V-K	50-240	50-240		120	35	22.0
D120-240 SV(-T/-S)-V-K	120-240	120-240		120	35	22.0
D150-300 SV(-T/-S)-V-K	150-240	150-240		128	38	23.0

Low Voltage mechanical connector up to 0.6/1 (1.2) kV Type: GPH®

Connector cat. no.*	Range CU** acc. To IEC 60228 (mm <sup>2</sup> )			Dimintions (mm)		
	round strand	sector strand	round solid	L	D	d
D1.5-35x8 SK-V-K	1.5-35	35	1.5-35	40	16	9.0
D1.5-35x10 SK-V-K	1.5-35	35	1.5-35	40	16	9.0
D10-35x8 SK-V-K	10-35	35	10-35	40	16	9.0
D10-35x10 SK-V-K	10-35	35	10-35	40	16	9.0
D25-50x10 SK-V-K	25-50	35-50	25-35	40	18	10.0
D25-50x12 SK-V-K	4-50	35-50	25-35	40	18	10.0
D4-50x10 SK-V-K	4-50	35-50	4-50	40	18	10.0
D4-50x12 SK-V-K	4-50	35-50	4-50	40	18	10.0
D16-95x10 SK-V-K	16-95	35-95	16x35	52	25	14.0
D16-95x12 SK-V-K	16-95	35-95	16x35	52	25	14.0
D25-150x12 SK-V-K	25-150	35-150	16x35	60	28	17.0
D25-150x16 SK-V-K	25-150	35-150	16x35	60	28	17.0
D35-150x12 SK-V-K	35-150	35-150	35	60	28	17.0
D35-150x16 SK-V-K	35-150	35-150	35	60	28	17.0
D50-240x12 SK-V-K	50-240	50-240		97	35	22.0
D50-240x16 SK-V-K	50-240	50-240		97	35	22.0
D120-240x12 SK-V-K	120-240	120-240		97	35	22.0
D120-240x16 SK-V-K	120-240	120-240		97	35	22.0
D150-300x12 SK-V-K	120-240	120-240		105	38	23.0
D150-300x16 SK-V-K	120-240	120-240		105	38	23.0

\* For details see manufacturer datasheet

\*\* For AL see manufacturer datasheet

Job Id: **262.1-028514-1**  
Certificate No: **TAE00003F9**

## **Application/Limitation**

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

## **Type Approval documentation**

Technical info:

"GPH® Mechanical Connector 0.6/1 kV with sector channel", datasheet from Nexans.

Test reports:

University Karlsruhe test report no. 2011-11 dated 2011-05-20.

University Karlsruhe confirmation NPAG, dated 2017-06-26.

## **Tests carried out**

Tested according to IEC 61238 Class A (2003-05).

## **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.

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