

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Data transmission cables and systems

with type designation(s)

**HXRG 11, HXRG 58, HXRG 59, HXRG 213,
HXRG 214, HXRG 216, HXRG 218, HXRG 223,**

Issued to

**Nexans Deutschland GmbH
Nürnberg, Bayern, Germany**

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft

Application :

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

Issued at **Hamburg** on **2020-05-04**

This Certificate is valid until **2025-05-03**.

for **DNV GL**

DNV GL local station: **Augsburg**

Approval Engineer: **Carsten Hunsalz**

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**Arne Schaarmann
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 GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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.



Job Id: **262.1-033144-1**
Certificate No: **TAE00003YA**

Product description

Halogen free, flame retardant coaxial cables for data transmission acc. VG 95218 Part 101

Type: HXRG 11, HXRG 58, HXRG 59, HXRG 213, HXRG 214, HXRG 216, HXRG 218, HXRG 223,

Inner conductor: Bare copper (HXRG 213, HXRG 218)
Tinned copper (HXRG 11, HXRG 58, HXRG 216)
Silver coated copper (HXRG 214, HXRG 223)
Bare copper clad steel (HXRG 59)

Insulation: Polyethylene (PE)

Braid: Bare copper (HXRG 11, HXRG 59, HXRG 213, HXRG 216, HXRG 218)
Tinned copper (HXRG 58)
Silver coated copper (HXRG 214, HXRG 223)

Sheath: Cross linked HFFR compound

Electrical data and characteristics: According to the manufacturer's data sheet SN 39300

Application/Limitation

Coaxial cables for data transmission acc. VG 95218 Part 101

Type Approval documentation

Test report: VDE Certificate of conformity with factory surveillance
Certificate No. 40003047 / Ref. No. 2133000-5970-0101-198968
dated 2014-09-17;

BWB Certificate of Approval No. U3.3h/14041, dated 07.10.2014

Specification: Nexans SN 39300_14B, dated 31.10.2014

Tests carried out

Standard	Release	General description	Limitation
VG 95218-101	2018-08	Cables and insulated wires - Part 101: Coaxial wires, detail standard	
VG 95218-2	2017-12	Cables and insulated wires - Part 2: Generic standard	
IEC 60332-1-2	2015-07	Tests on electric cables under fire conditions. Test for vertical flame propagation for a single insulated wire or cable.	
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

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Standard	Release	General description	Limitation
IEC 60754-2	2011-11	Test on gases evolved during combustion of materials from cables - Part 2: Determination of acidity (by pH measurement) and conductivity	Halogen free: pH > 4,3 Conductivity < 10µS/mm
IEC 60684-2	2011-08	Flexible insulating sleeving – Part 2: Methods of test.	Fluorine content < 0,1%
IEC 61034-2	2019-11	Measurement of smoke density of cables burning under defined conditions - Part 2: Test procedure and requirements	

Marking of product

Example:

NEXANS Coaxial Cable HXRG 11 – CE(Symbol) Order-No.

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