

# TYPE APPROVAL CERTIFICATE

**This is to certify:****That the Data transmission cables and systems**with type designation(s)  
**02Y(St)CH 2.7/7.3AF**

Issued to

**Draka Comteq Germany GmbH & Co. KG**  
**Köln, 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 **2017-09-29**This Certificate is valid until **2022-09-28**.DNV GL local station: **Essen**Approval Engineer: **Carsten Hunsalz**for **DNV GL**

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**Duy Nam Le**  
**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.



## Product description

Halogen free low loss 50 Ohm Coaxial Cable with screening factor 90 dB and over.

Type: 02Y(St)CH 2.7/7.3AF

Inner conductor: Copper wire bare, diameter 2,71 mm  
 Insulation: Foam-PE; diameter 7,25 mm  
 Outer conductor: Al-PETP-Al-foil + copper braid, tinned, 93% optical cov.  
 Sheath: FRNC, thermoplastic copolymer

Electrical properties: Mutual capacitance: 79 pF/m  
 Impedance at 200MHz: 50 Ohm  
 Operating voltage: 1,2 kV rms  
 Electrical data: According DRAKA data sheet

Mechanical properties: Operating temp.: -30°C to +70°C  
 Bending radius: 5 x outer diameter (without load)

## Application/Limitation

The requirements of SOLAS Amendments Chapter II-1, Part D, Reg. 45, 5.2 (provision to be taken to limit Fire Propagation along Bunches of Cables or Wires) are fulfilled without any additional measures.

Use as radio frequency coaxial cable

## Type Approval documentation

Test report : [Draka Comteq reference 2006035\\_RF1\\_summery, dated of 19.09.2006 K50 2,7/7,3 AF 24.03.2017](#)

Data sheet: [2\\_7\\_7\\_3AF\\_FRNC\\_C\\_d Version 1.0 dated 18.10.2013](#)

## Tests carried out

Standard	Release	General description	Limitation
EN 50117-1	2014-06	Coaxial cables-Part 1: Generic specification	
IEC 61196-1	2005	Coaxial communication cables	
IEC 60332-1-2	2015-07	Tests on electric and optical fibre cables under fire conditions. Part 1-2. Test for vertical flame propagation for a single insulated wire or cable. Procedure for 1 kW pre-mixed flame	
IEC 60332-3-24	2009-11	Tests on electric and optical fibre cables under fire conditions – Part 3-24: Test for vertical flame spread of vertically-mounted bunched wires or cables – Category C	Bunch test Category C
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

Job Id: 262.1-025967-1  
Certificate No: TAE000029E

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

### Marking of product

DRAKA 2.7/7.3AF FRNC-C LOW LOSS <batch no.> <meter marking> m < IEC 60332-3-24>

### Place of Production

Draka Comteq Germany GmbH & Co. KG, Wohlaer Str. 15, D-90457 Nürnberg

### 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