

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Lightweight Electric Cable**with type designation(s)
CL105 wire

Issued to

Tyco Electronics UK Ltd
Swindon, United Kingdom

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft**Application :****General power and lighting. Control. Instrumentation and communication.****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.****Rated voltage (kV) 0,6/1****Temp. class (°C) 90**Issued at **Høvik** on **2018-01-01**This Certificate is valid until **2022-12-31**.for **DNV GL**DNV GL local station: **London**Approval Engineer: **Ivar Bull**

Andreas Kristoffersen
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.



Job Id: **262.1-015897-6**
Certificate No: **TAE00002CJ**

Product description

CL105 wire 0,6/1 kV

Conductors: Tinned, stranded copper
Core insulation: Halogen-Free Flame Retarded Thermoplastic compound

No of elements:	Cross sectional area:
1 core	0,5 to 10 [mm ²]
1 core	24 – 12 AWG

Type Approval documentation

Tests carried out

	Release	General description	Limitation
DNVGL-CP-0400	2015-12	Class Programme Lightweight electric cables	
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
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 61034-1/2	2013-07 2013-09	Measurement of smoke density of cables burning under defined conditions – Test apparatus, procedure and requirements	Low smoke Light transmittance ≥60%

Marking of product

Tyco Electronics – CL105 wire - size – 0,6/1 kV – Lot 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) and selected type tests (ref. to applicable class programs) checked (if not available these tests shall 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