

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Electrical Equipment**

with type designation(s)

Connector cat 6A/EA type MarineConnect 800412

Issued to

**B.V. Twentsche Kabelfabriek
Haaksbergen, Netherlands**

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft**Application :****Connector tested up to category 6A/EA (500MHz).****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.****Temperature -40°C to +70°C****Humidity IP20****Vibration -**Issued at **Høvik** on **2017-09-18**This Certificate is valid until **2022-09-17**.DNV GL local station: **Rotterdam**for **DNV GL**Approval Engineer: **Ivar Bull**

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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: **262.1-021827-1**
Certificate No: **TAE00001YS**

Product description

Connector type RJ45 P/N 800412 (both solid and stranded)
Class; E_A (equal to cat. 6_A)
Frequency Up to 500MHz, 100 Ohm.
Ethernet speed ≤10GB

Manufacturer place

Socket manufacturer: Multimedia Connect, TKH Group, 91320 Wissous, France.

Application/Limitation

Manufacturers installation instructions to be followed.

Type Approval documentation

Tests carried out

Standard	Release	General description	Limitation
ISO/IEC 11801	2010-04	Information technology – Generic cabling for customer premises	Tested for characteristics up to category E _A (500MHz) as added in Amd. 2
IEC 60603-7-51	2010-04	Connectors for electronic equipment - Part 7-51: Detail specification for 8-way, shielded, free and fixed connectors, for data transmissions with frequencies up to 500 MHz	

Marking of product

TKF P/N 800412 MarineConnect Cat.6A Screened connector

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 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