DNV·GL

Certificate No:
TAE00002XG

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Circular connector

with type designation(s)
M23 - V4A

Issued to
Hummel AG
Denzlingen, 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 **2018-06-06**
This Certificate is valid until **2023-06-05**.
DNV GL local station: **Augsburg**

Approval Engineer: **Harald Amberger**

for **DNV GL**

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.

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Product description

Type M23 - V4A

Cable plug and receptable, inline receptable

6,7,9,12 pole type	150V AC
16,17,19 pole type	100V AC
Ingress protection:	IP X8 (3bar) EN 60529 (plug)
Material body:	1.4404 as per EN 10088-3
Insulation material:	PBT, PA6 (UL 95-V0)

Contact size 1 mm diameter 8A
Contact size 2 mm diameter 20A

Application/Limitation

Location Classes:
Temperature range: -40°C - + 45°C (120°C), Vibration: B

Assembling instruction of the manufacturer to be observed

Type Approval documentation

Tests carried out

DIN EN 60529:2000, Cold, dry heat, vibration

Marking of product

Hummel - Type designation - Main data.

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