

# TYPE APPROVAL CERTIFICATE

**This is to certify:****That the Circular 8-way connector, shielded, field-assembly**with type designation(s)  
**M12 Cat.6A(ISO) X-coded**

Issued to

**Metz Connect GmbH  
Blumberg, 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 **2021-01-25**This Certificate is valid until **2026-01-24**.DNV GL local station: **Augsburg**for **DNV GL**Approval Engineer: **Harald Amberger**

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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: **262.1-034452-1**  
Certificate No: **TAE000046N**

## Product description

M12 jack X-coded IP67 Cat.6A(ISO) DNV	part no. MMF881A315-DNV
M12 jack X-coded IP67 Cat.6A(ISO) with flange DNV	part no. MMF881A315-DNV1
M12 plug X-coded IP67 Cat.6A(ISO) DNV	part no. MNF881A315-DNV1
Cable connector class FA(ISO) DNV	part no. 130863-02-DNV

full shielded connector material (body)	die-cast zinc GD ZnAl4Cu1
ingress protection	IP 67
wire termination	IDC insulation displacement connection
number of cores	4 twisted pair cables 0.4 - 0.63mm stranded & solid (AWG22/1... AWG26/1, AWG22/7... AWG26/7)

compliance with following standards:  
EN 50173-1:2011  
ISO/IEC 11801:2011 (2. edition)  
IEC 60603-7-51: 2010  
IEC 61076-2-109: 2010

## Application/Limitation

Location Classes:

Temperature: B, Humidity: B, Vibration: A

Operating instruction of the manufacturer to be observed

The term "(ISO)" used in this document marks the subscripted character "A" identifying the transmission performance Category 6A or Class FA according to the standards ISO/IEC 11801 and EN50173

## Type Approval documentation

### Tests carried out

Environmental tests acc. DNVGL-CG-0339

### Marking of product

Metz Connect GmbH - 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