



Certificate No:
TAE00004KY

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Category cables

with type designation(s)

**DK4 STX/CDA UC500 S/FTP AWG23/1 HS23 Cat 6A Horizontal cable,
Ocean Line 900 S/FTP AWG23/1 Cat 7 Horizontal cable**

Issued to

**Prysmian Kablo s.r.o.
Bratislava, Bratislavský, Slovakia (Slovak Republic)**

is found to comply with

DNV rules for classification – Ships, offshore units, and high speed and light craft

Application :

Data communication cable. Solid conductor.

Products approved by this certificate are accepted for installation on all vessels classed by DNV.

Issued at **Høvik** on **2023-12-15**

This Certificate is valid until **2028-12-14**.

DNV local station: **Site Office Komarno**

for **DNV**

Approval Engineer: **Ivar Bull**

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**Frederik Tore Elter
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 AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") 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.



Form code: TA 251

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Product description

DK4 STX/CDA UC500 S/FTP AWG23/1 HS23 Cat 6A Horizontal cable
Ocean Line 900 S/FTP AWG23/1 4P Cat 7 Horizontal cable,

Conductor:	Solid bare Copper AWG 23/1
Insulation :	Foam skin PE
Cabling / Individual screen:	Twisted pairs with Al-laminated plastic foil
Overall screen:	Tinned copper wire braid
Outer Sheath:	SHF1

For transmission properties, please refer to technical datasheets, DNV Nos 10 and 26.

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.

Cables with solid conductors shall be installed with suitable termination equipment to withstand ship vibrations

Flame retardant in bunch; cat A. Low smoke

Operation temperature:	-20°C to +60°C
Installation temperature	0°C to +50°C

Bending radius without load:	>40mm
Bending radius with load:	>80mm

Type Approval documentation

UC500 Cat 6A:

UC900 Cat 7:

Tests carried out

Standard	Release	General description	Limitation
DNV-CP-0403	2021-09	DNV Type approval program for Data communication cables – category cables	Reference to requirements for cat 6A and Cat 7
IEC 61156-5	2020-04	Multicore and symmetrical pair/quad cables for digital communications – Part 5: Symmetrical pair/quad cables with transmission characteristics up to 1 000 MHz – Horizontal wiring – Sectional specification	Reference to requirements for cat 6A and Cat 7
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	2018-07	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	
IEC 60754-2	2019-11	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 DK4 STX/CDA SC000060 Cat.6A S/FTP 4p LSHF-FR IEC 60332-3-24 <factory code/batch no./date-time><meter> m or

DRAKA OceanLine – 900 SS23 C7 S/FTP 4P LSHF-FR - IEC 60332-3-24 - batch no. + meter marking

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