



Certificate No:
TAE00004N9

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Fiber optical cable

with type designation(s)

Draka Oceanline OLF04 E22: UCFIBRE Universal Central Tube Non-Metallic Gel-Filled Cable Indoor loose tube cable with 1-24 fibers.

Issued to

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

is found to comply with

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

Application :

Fiber optic cable. Loose tube.

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

Issued at **Høvik** on **2023-02-20**

for **DNV**

This Certificate is valid until **2028-02-19**.

DNV local unit: **Site Office Komarno**

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

Revision: 2022-12

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Product description

Draka Oceanline OLF04 E22: UCFIBRE Universal Central Tube Non-Metallic Gel-Filled Cable Indoor loose tube cable with 1-24 fibers.

Construction	
Loose tubes:	Central loose tube with up to 24 fibres. Gel filled tube/ water blocked.
Reinforcement:	Layer of glass fibre yarns as reinforcement and rodent protection
Outer sheath	SHF1 Halogen free. UV Stabilized.

Fiber types:

Fiber type	SM2D/A1	SM7A2	50/125 OM3B	62,5/125 OM1	50/125 OM4B	50/125 OM5
Prysmian Data sheet	C17	C24	C31	C02	C32	C39

For more details please see datasheet.

Application/Limitation

Min. Installation temperature:	
Operation temperature:	-20°C to + 60°C
Storage temperature:	

The requirements of SOLAS Amendments Chapter II-1, Part D, Reg. 45, 5.2 (provision to be taken to limit Fire Propagation along Bundles of Cables or Wires) are fulfilled without any additional measures.

Type Approval documentation

Data sheets: [Oceanline_OLF03_e Version 2.0 28.03.2022.](#)
Test reports: [Prysmian Test report Audit for Type Approval DNVGL-CP-0402.](#)
[Signed 20-N08-OLF03_Test_Conclusion](#)
[Attenuation measurement report 17.03.2022](#)

Tests carried out

Standard	Release	General description	Limitation
DNVGL-CP-0402	2021-09	DNV-GL Class Programme Optical fibre cables	
IEC 60092-360	2021-01	Electrical installations in ships - Part 360: Insulating and sheathing materials for shipboard and offshore units, power, control, instrumentation and telecommunication cables	
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	Charred portion of sample does not exceed 2,5m above bottom edge of burner.
IEC 60754-2	2019-11	Test on gases evolved during combustion of materials from cables - Part 1: Determination of the halogen acid gas content	Halogen free: pH > 4,3 Conductivity < 10µS/mm
IEC 61034-1/2	2019-11	Measurement of smoke density of cables burning under defined conditions – Part 1: Test apparatus Part 2: Test procedure and requirements	Low smoke Light transmittance >60%

Marking of product

Draka Oceanline OLF 04 LSHF-FR <Fibre count> <Fibre type><Fibre brand><Item No><Factory Code><Batch Number><Meter mark> U-DQ(ZN)BH <Fibre count> <Fibre family> <Mode field diameter> /125 <Transmission Class> IEC60332-3-24.

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