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Long-distance ROV fibre cable system

Oceanbotics

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Document type: brochure

Reviewed: 2026-09-15

The original producer pages follow unchanged.

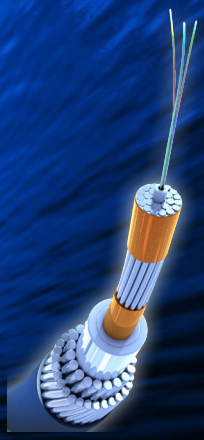
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Original source reference:

https://www.buviscandinavia.com/s/fiber-cable-oceanbotics-rov-buvi-scandinavia-en.pdf

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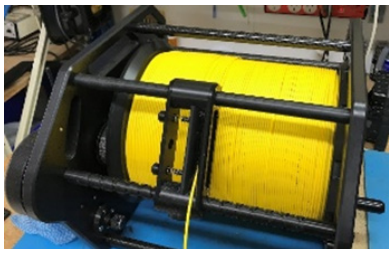
New ROV technology!

Inspections in tunnels with long fiber cable!

Fiber of lengths from 1000 - 5000 meters

Oceanbotics SRV-8 is normally equipped with 100 - 400m communication cable fast Ethernet on the drum. Since only the communication needs to be transmitted by cable it doesn't weigh very much. The powerful lithium batteries provide an operating time of over 6 hours.

Oceanbotics SRV-8 can also be fitted with fibers up to 5000 meters in length which is currently being used in large tunnel jobs in Australia. The supplied control box has one prepared connection for fiber on delivery and a fiber converter can be connected directly on SRV-8 underside. Fiber can be supplied on fabric or with different cable drums. Fiber electric cable drums can be used to simplify work but it also works to manually roll fiber up and out on a regular drum.



Electric cable drum



Manual drum in bag





Regular cable 100-400 m →

Fiber 1000-5000 m →

Depth 305 m ↓

Fiber cable Diameter	3,5 mm
Tolerance	+/- 0,127 mm
Fiber	Single-mode
Density (neutral buoyancy)	0,99
Weight	9,52 g/m
Bend Radius (MBR)	70 mm
Tensile strength	340 kg
Attenuation @ 1310 nm (dB / km)	< 0,45
Attenuation @ 1550 nm (dB / km)	< 0,35

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