

Metallic Fibre Optic Underwater Cables

BRUaqua[®]

3_7_1

Metallic underwater cable with optical fibres in one central or in several stranded stainless steel loose tubes.

Interstices filled with moisture-blocking compound, outer sheath in HDPE.

Construction

- PE outer sheath
- Moisture barrier (compound)
- Galvanised steel wires
- Gel-filled stainless steel loose tubes
- Optical fibres with primary coating

Description

- One central or several stranded stainless steel loose tubes
- Compact design
- High corrosion resistance
- High permissible tensile strength
- High crush resistance
- Longitudinally and laterally watertight
- Excellent rodent protection
- Robust sheath
- Halogen-free cable sheath

Application

- Laying directly in water and in chemically aggressive environments

Temperature range

Operating temperature: -40° ... +60°C
Storage temperature: -40° ... +60°C
Installation temperature: -5° ... +50°C

Jacket colour

Black similar to RAL 9005

Standards

IEC 60794 Optical fibre cables
Additional Information see "Used standards" 3_0_9

Remarks

This cable is available with different fibre types, see data sheets Optical Fibres.
Identification of loose tubes by colour coded threads.
Fibre and tube colours see "Colour codes/ properties" 3_0_3.
Other types on request

LLK-SSnCd(F2YD)



Technical data

Type	No of fibres (max.)	Cable ø mm	Weight in water kg/km	Theor. breaking load kN
16 mm	60	16.7	≥561	≥139
20 mm	108	20.2	≥889	≥227
22 mm	144	22.4	≥1161	≥296

Type	Min. bending radius with tensile mm	Min. bending radius without tensile mm	Max. crush resistance N/cm
16 mm	20xD	15xD	2000
20 mm	20xD	15xD	2000
22 mm	20xD	15xD	2000

