

BRUsens acoustic 6.6 mm AC2

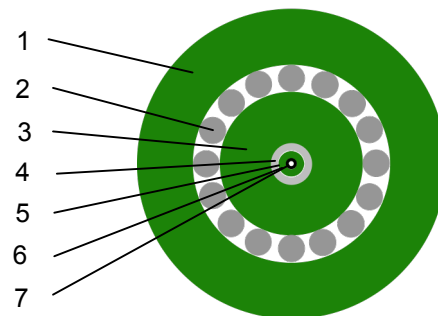
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LLK-BSAC 6.6 mm AC2

Fiber optic acoustic sensing cable with stainless steel central metal tube with one optical fiber, metal tube as hermetic seal member, galvanized steel armoring and PA outer sheath, good acoustic response

Construction:

- 1) PA outer sheath
- 2) Specially embedded steel armoring layer
- 3) Inner PA layer with coupling system
- 4) Stainless steel 316 L metal tube
- 5) Inner interlocking system
- 6) Multilayer acoustic coupling layer
- 7) Bend insensitive optical fiber with dual layer acrylate coating for increased micro bending performance



Description:

- Extra small central metal tube with one optical fiber, hermetically sealed, laterally watertight
- Good acoustic coupling
- Excellent mechanical protection with high strength steel armoring
- Excellent rodent protection
- Compact design, good flexibility, small bending radius
- Special abrasion resistant outer PA sheath with acoustic interlocking system
- Halogen-free cable sheath

Temperature range:

- Operating temperature: -40° C ... +85° C
- Storage temperature: -40° C ... +85° C
- Installation temperature: -10° C ... +50° C

Cable sheath color:

- Green, similar RAL 6018
- Other colors upon request

Standards:

- Cable tests complying with IEC 60794-1-2

Remarks:

- Fiber color: 1 red
- Other cable designs for acoustic applications available
- Standard cable marking with meter marks, special labeling of outer sheath upon request
- Accessories such as optical loops, fan-outs, connectors, mounting brackets, repair kits etc. available
- Deployment training upon request
- For improved UV resistance, black cable sheath available upon request

Applications:

- Distributed acoustic monitoring
- Sensing applications
- Sensing technologies Rayleigh scattering, Raman, Brillouin
- Harsh environment, outdoors
- Deployment subsea, directly in the ground, attached to structures or in conduits

Standard optical fiber:

- Single-mode fiber: ITU-T G.657
- Other fiber types and fiber quality available upon request

Technical data:

Type	Max. no. of fibres units	Cable ø mm	Weight kg/km	Max. tensile strength	
				installation N	operation N
1F	1	6.6	70	3500	2600

Type	Min. bending radius		Max. crush resistance N/cm
	with tensile mm	without tensile mm	
1F	132 (20xD)	99 (15xD)	700

Optical fiber data (cabled) at 20°C

Fiber Type	Attenuation, dB/km				Modal Bandwidth, MHz·km	
	850 nm	1064 nm	1300 / 1310 nm	1550 nm	850 nm	1300 nm
SMF	NA		≤0.40	≤0.25	NA	NA

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2011/12/14 / Rev.02 TH