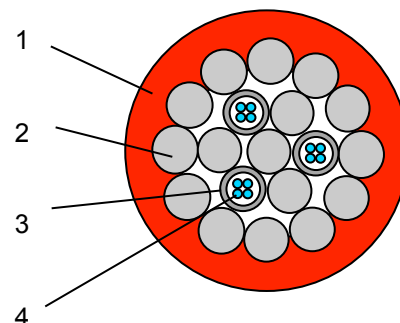


BRUsens temperature 85°C submarine

3_50_1_027

Robust fiber optic temperature sensing cable with stranded loose tubes, Galvan wires and HDPE outer sheath, good thermal response, for up to 12 fibers

LLK-BSTE 85°C 10.0 mm



Construction:

- 1) HDPE outer sheath
- 2) Galvan high strength steel wires
- 3) Gel-filled metal loose tube SS 316L
- 4) Bend insensitive optical fibers with dual layer acrylate coating for increased micro bending performance

Description:

- Stranded metal loose tubes with up to 4 fibers, hermetically sealed
- High tensile strength, high crush resistance
- Laterally watertight
- Excellent rodent protection
- Armored compact design, high flexibility, small bending radius
- High chemical resistance
- 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:

- Red, similar RAL 3000
- Other colors upon request

Standards:

- Cable tests complying with IEC 60794-1-2

Remarks:

- Fiber color: 1 red, 2 green, 3 yellow, 4 blue
- Other cable designs and temperature ranges available
- Standard cable marking with meter marks, special labeling of outer sheath upon request
- Accessories such as loops, fan-outs, connectors, mounting brackets etc. available
- Deployment training upon request
- For improved UV resistance, black cable sheath available upon request

Applications:

- Temperature monitoring
- Sensing applications
- Sensing technologies: Raman, Brillouin, FBG etc.
- Harsh environment, outdoors
- Deployment subsea or terrain

Standard optical fiber:

- Multimode fiber: ITU-T G.651, 50µm or 62.5 µm
- Single-mode fiber: ITU-T G.652.D or 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
1C...3C	12	10.0	260	20000	13000

Type	Min. bending radius		Max. crush resistance N/cm	Hydrostatic pressure resistance x 100 kPA (bar)
	with tensile mm	without tensile mm		
1C...3C	200 (20xD)	150 (15xD)	2500	300

Optical fiber data (cabled) at 20°C

Fiber Type	Attenuation, dB/km			Modal Bandwidth, MHz·km	
	850 nm	1300 / 1310 nm	1550 nm	850 nm	1300 nm
MMF 50/125	≤3.0	≤1.0	NA	700	500
MMF 62.5/125	≤3.5	≤1.0	NA	200	500
SMF	NA	≤0.36	≤0.25	NA	NA

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Subject to changes without notice

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