

BRUsens temperature 85°C mobile

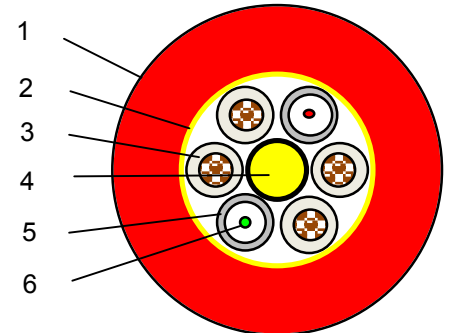
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Small, lightweight, flexible fiber optic temperature sensing cable with stranded metal loose tubes, aramid strength members and PUR outer sheath, fast thermal response, for up to 2 fibers

LLK-BSTE 85°C 4.6 mm

Construction:

- 1) PUR outer sheath
- 2) Aramid strain relief
- 3) PA filler with copper core for higher density
- 4) Central FRP rod
- 5) Gel-filled stainless steel 316L metal loose tube
- 6) Bend insensitive optical fibers with dual layer acrylate coating for increased micro bending performance



Description:

- Stranded metal loose tubes with 1 fiber, hermetically sealed
- High tensile strength
- Optimized for repeated cable deployment
- Good rodent protection
- Compact design, high flexibility, small bending radius
- Robust abrasion resistant sheath
- Halogen-free

Temperature range:

- Operating temperature: -40° C ... +85° C
- Storage temperature: -40° C ... +85° C
- Installation temperature: -10° C ... +50° C
- Short term temperature (3 min) +150° C

Cable sheath color:

- Red, similar RAL 3000
- Other colors upon request

Applications:

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

Standards:

- Cable tests complying with IEC 60794-1-2

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

Remarks:

- Fiber color: 1 red, 2 green
- 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

Technical data:

Type	Max. no. of fibres units	Cable ø mm	Weight kg/km	Max. tensile strength	
				installation N	operation N
2C	2	4.6	27	1500	1000

Type	Min. bending radius		Max. crush resistance N/cm
	with tensile mm	without tensile mm	
2C	90 (20xD)	70 (15xD)	500

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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