

BRUsens Temperature 150°C

3_50_1.002

Small fiber optic mid temperature sensing cable, armoured with stainless steel loose tube, stainless steel strength members and TPE outer sheath, fast thermal response, for up to 2 fibers

LLK-BSTE 150°C 3.8 mm

Construction:

- 1) Fibers with mid temperature dual layer acrylate fiber for increased micro bending performance
- 2) Stainless steel tube, 316L
- 3) Stainless steel wires, 316L
- 4) TPE outer sheath

Description:

- Central metal loose tube with up to 2 fibers, hermetically sealed, optimized fiber excess length
- High tensile strength
- High crush resistance
- Excellent rodent protection, laterally watertight
- High chemical resistance
- Special high temperature TPE, robust abrasion resistant cable sheath
- Compact design, high flexibility, small bending radius
- Halogen free

Applications:

- Temperature monitoring
- Sensing applications, Raman, Brillouin
- Harsh environment, outdoors
- Deployment in conduits, directly in the ground or attached to structures
- Temperature compensation cable for Brillouin applications

Standard optical fiber:

- Multimode fiber: ITU-T G.651, GI 50 µm, 62.5 µm
- Single-mode fiber: ITU-T G.652.D or G.657
- Other fiber types and fiber quality available upon request

Temperature range:

- Operating temperature: -40° C ... +150° C
- Storage temperature: -40° C ... +150° C
- Installation temperature: -10° C ... +150° C
- Short term temperature (max. 60min): -50° C ... +180° C

Cable sheath color:

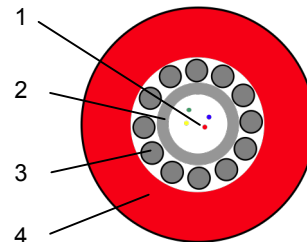
- Red, similar RAL 3000
- Other colors upon request

Standards:

- Cable tests complying with IEC 60794-1-2,

Remarks:

- Fiber colour: 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
2F	2	3.8	28	1500	1100

Type	Min. bending radius		Max. crush resistance N/cm
	with tensile mm	without tensile mm	
2F	20xD	15xD	900

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	400	600
MMF 62.5/125	≤3.5	≤1.0	NA	200	500
SMF	NA	≤0.36	≤0.25	NA	NA

Subject to changes without notice

201104/1/Rev.02 AR