



BRUsens DTS STL PA

3_50_1_001

Fiber optic temperature sensing cable, extra small, armored with stainless steel loose tube, stainless steel strength members and PA outer sheath, fast thermal response, for up to 8 fibers.

Description

- Compact design, low weight, high flexibility, small bending radius
- Loose tube, central, metal, gel filled, with up to 8 fibers, hermetically sealed, optimized fiber excess length
- Outer sheath, robust, abrasion resistant, halogen free
- High crush resistance
- High tensile strength
- Excellent rodent protection
- High chemical resistance
- Fast temperature response
- Easy deployment

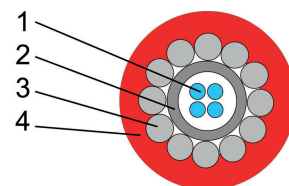
Application

- Temperature
- Communication cable for sensing
- Temperature compensation for Brillouin
- Raman, Brillouin, FBG etc.
- Outdoors, harsh environment
- Direct burial in soil or in conduits

Remarks

- Standard fiber color code: 1 red, 2 green, 3 yellow, 4 blue, 5 white, 6 violet, 7 orange, 8 black
- For improved UV resistance, black cable sheath available upon request
- Other cable designs available
- Accessories such as mounting brackets, loops, fan-outs, splice enclosures, connectors, patch-panels, repair kits etc. are available
- Deployment training upon request

LLK-BSTE 85°C 3.4 ...4.8 mm

**Technical data at 20°C**

Type	Max. no. of fibres units	Cable ø mm	Weight kg/km	Max. crush resist- ance N/cm	Installation Max. tensile strength N	Operation Max. tensile strength N
1F	1	3.4	18	1200	800	600
2F	2	3.8	26	600	1500	1000
4F	4	3.8	26	600	1500	1000
8F	8	4.8	46	800	3000	2000

Type	with tensile load Min. bending radius mm	without tensile load Min. bending radius mm	Hydrostatic pressure resistance x 100 kPa (bar)
1F...8F	20xD	15xD	300

Optical fiber data (cabled) at 20°C

Fiber Type	Attenuation dB/km 850 nm	Attenuation dB/km 1300 / 1310 nm	Attenuation dB/km 1550 nm	Modal Bandwidth MHz x km 850 nm	Modal Bandwidth MHz x km 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