BRUsens DSS 3.5mm V0 alarm

3_50_2_006

Fiber optic strain sensing cable, mini, flexible, armored with central metal tube tube, metallic armoring wires and HDPE outer sheath, one optical fiber, strain range up to 1% (10000 µstrain).

Description

- Compact design, good flexibility, small bending radius
- Central metal loose tube with minimized fiber excess length
- Outer sheath, robust, halogen free, optimized for better strain transfer
- Excellent rodent protection
- High chemical resistance
- Laterally watertight
- High tensile strength and crush resistance
- Good strain sensitivity

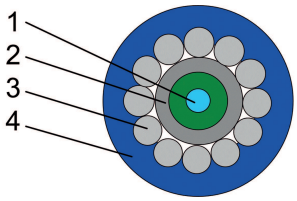
Application

- Strain
- Soil movement
- Pipeline monitoring
- Stuctural monitoring
- Alarm systems
- Brillouin, FBG
- Outdoors, harsh environment, subsea
- Direct burial in soil, concrete

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
- Deployment training upon request
- Standard cable marking with meter marks, special labeling of outer sheath upon request
- Other cable designs and temperature ranges upon request
- Accessories such as mounting brackets, loops, fan-outs, splice enclosures, connectors, patch-panels, repair- and field-termination-kits etc. are available
- Accessories such as anchors, mounting brackets, loops, fan-outs, splice enclosures, connectors, patch-panels, repair kits etc. are available
- Final test reports OTDR, BOTDA measurement available upon request

LLK-BSST V0 3.5 mm



Technical data

Type	Max. no. of fibres units	Cable ø mm	Weight kg/km	Installation Max. tensile strength N	Typical Load at 1 % elongation N
1F	1	3.5	19	700	tbd

Type	with tensile load Min. bending radius mm	without tensile load Min. bending radius mm	Max. crush resistance N/cm
1F	70 (20xD)	53 (15xD)	800

Optical fiber data (cabled) at 20°C

Fiber Type	Attenuation dB/km 1550 nm	Temperature sensitivity df_B/dT Typical Brillouin parameters BOTDR or BOTDA at 1550 nm MHz/°C	Strain sensitivity $df_B/d\varepsilon$ Typical Brillouin parameters BOTDR or BOTDA at 1550 nm MHz/%	Centr. Brillouin Freq. Typical Brillouin parameters BOTDR or BOTDA at 1550 nm GHz
SMF	≤0.4	1.1	450	10.8

Subject to change without notice

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