

BRUsens Temperature +85°C

3.50.1.001

Flexible mini fiber optic sensing cable, fast thermal response, strong, with stainless steel loose tube design with up to 8 sensing fibers

Construction:

- PA outer sheath
- Stainless steel wires
- Gel-filled stainless steel loose tube
- Fibers with dual layer acrylate coating for increased microbending performance

Description:

- Central steel loose tube
- High tensile strength
- High crush resistance
- Excellent rodent protection
- Compact design, high flexibility
- Low weight
- Halogen free outer sheath
- Abrasion resistant
- Easy handling and splicing of optical fibers

Application:

- Temperature monitoring
- Sensing applications
- Temporary applications
- Indoor and outdoor
- Harsh environment
- Suited for subsea applications

Remarks:

- Instructions for installation and use see data sheet 3_6_0
- Special labeling of outer sheath on request
- Flame retardant cable sheath on request

Optical Fiber:

- Multimode fiber: ITU-T G.651, GI 50µm/62.5µm
- Singlemode fiber: ITU-T G.652.D

Temperature range:

- Operating temperature: -40°... +85°C
- Storage temperature: -40°... +85°C
- Installation temperature: -5°... +50°C
- Short- term temperature: (max.60min) -50°... +150°C

Standards:

- Cable tests complying with IEC 60794 -1-2

Jacket color:

- Blue similar to RAL 5005

Accessories (on request):

- Pre-assembled cables with:
 - Standard ferrule connectors
 - Connector with IP protection class
 - Fiber optic cable fan-out (Fiber Quick)
- Ruggedised lens connectors
- Enclosures, Splice boxes
- Fixings
- Cable handling accessories
- Dead-ends and suspension fittings
- Repair kit



Technical data

Type	Max. no. of fibers units	Cable Ø mm	Weight kg/km	Max. tensile strength	
				short- term N	long- term N
1F	1	3.4	18	800	600
2F	2	3.8	25	1500	1100
4F	4	3.8	25	1300	900
8F	8	4.8	46	3500	2600

Type	Min. bending radius		Max. crush resistance N/cm
	With tensile mm	Without tensile mm	
1F	20xD	15xD	2000
2F	20xD	15xD	960
4F	20xD	15xD	800
8F	20xD	15xD	1000

Optical fiber data (cabled)

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

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