BRUsens Temperature +150°C 3.50.1.002

Flexible mini fiber optic sensing cable, fast thermal response, strong, with stainless steel loose tube design with up to 4 sensing fibers

Construction:
- TPE outer sheath specially designed for high temperature applications
- Stainless steel wires
- Gel free stainless steel loose tube
- High temperature acrylate coating optical fibers

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 acrylate coating optical fibers

Application:
- Temperature monitoring
- Sensing applications
- Temporary applications
- Indoor and outdoor
- Harsh environment

Remarks:
- Instructions for installation and use see data sheet 3_6_0
- Special labeling of outer 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°... +150°C
- Storage temperature: -40°... +85°C
- Installation temperature: -5°... +50°C
- Short- term temperature: (max.60min) -50°... +180°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	Max. tensile strength long- term N
1F	1	3.4	18	800	600
2F	2	3.8	25	1500	1100
4F	4	3.8	25	1300	900

Type	Min. bending radius With tensile mm	Min. bending radius Without tensile mm	Max. crush resistance N/cm
1F	20xD	15xD	2000
2F	20xD	15xD	960
4F	20xD	15xD	600

Optical fiber data (cabled)

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

BRUGG CABLES Well connected.
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