

BRUsens Temperature +85°C, all dielectric

3.50.1.015

Non-metallic highly flexible mini fiber optic sensing cable for easy deployment, with up to 4 sensing fibers

Construction:

- Outer PUR sheath
- Aramid strain relief
- Helically stranded core for better flexibility and higher mechanical protection of the optical fibers
- Dual layer reinforced tight buffered fibers
- Optical fibers with dual layer primary coating for improved micro bending
- Labeling outer sheet 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

Description:

- Compact dimensions, low weight
- For direct assembly of harsh environment
- Non metallic cable
- Good tensile strength
- High flexibility
- High temperature stability due to aramid yarns
- Optimized for repeated cable installation
- Designated blue color for easier recognition
- Abrasion resistant robust outer sheath
- Halogen free outer sheath

Standards:

- Cable tests complying to IEC 60794 -1-2

Jacket color:

- Blue similar to RAL 5005

Accessories and services offered (on request):

- Pre-assembly:
 - Standard ferrule connectors
 - Connectors with IP protection class
 - Fiber optic cable fan-out (Fiber Quick)
 - Ruggedised lens connectors
 - Enclosures, splice boxes, cable terminations for loop configuration
- Delivered on various reels for easy deployment
- Hand-reels, backpack- or vehicle reels
- Deployment and installation aids, like wedge clamps, masts, fixings, etc.
- Training for deployment and cable testing
- Cable repairing at factory



Application:

- Indoor and outdoor
- Distributed temperature sensing
- Designed for mobile applications
- Rapid deployment in harsh environment

Remarks:

- Instructions for installation and use see data sheet 3_6_0
- Standard labeling, special labeling of outer sheath on request

Technical data

Type	Max. no. of fibers units	Cable Ø mm	Weight kg/km	Max. tensile strength	
				short- term N	long- term N
2F	2	6	31	2000	800
4F	4	6.5	34	2000	800

Type	Min. bending radius		Max. crush resistance N/cm	Impact resistance Impacts	Repeated bending Cycles
	With tensile mm	Without tensile mm			
2F	15xD	10xD	450		450
4F	15xD	10xD	450		450

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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Subject to changes without notice.

