

BRUmil

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Flexible Mini FO cable, for harsh environment, with stainless steel loose tube for maximum 8 fibers and stainless steel armoring. Approved by NATO and armed forces.

Application

- Tactical military or civil applications: temporary robust communication lines and mobile applications with rodent danger
- Rapid deployment in harsh surroundings
- Outdoor and indoor

Description

- Central stainless steel loose tube with up to 8 fibers, single – or multimode
- High crush resistance
- High permissible tensile strength
- Longitudinally watertight
- Excellent rodent proof
- Compact structure, high flexibility
- Very low weight
- Robust sheath halogen-free
- To brace with wedge clamps

Construction

- Outer PA sheath with extra abrasion resistance
- Armoring and strain relief made of stainless steel wire
- Gel-filled stainless steel loose tube
- Fibers with primary coating
- Labeling on request, individual labeling per reel with code, length and exact meter mark

Temperature range

Operating temperature -55° ... +85°C
 Storage temperature -60° ... +85°C
 The minimum operating temperature for types with only one fiber is -40°C

Jacket color

Black similar to RAL 9005

Standards

IEC 60794
 MIL-STD-810F

Remarks

Accessories offered:

- Pre-assembling with military lens- or ferule- connectors, delivered on various reels
- Adapting cables to standard connectors
- Hand-reels, backpack- or vehicle reels
- Deployment aids, like wedge clamps, masts etc.
- Training for deployment, repair and cable testing
- Solution engineering and system design



Technical data:

Type	Max. no. of fibers units	Cable mm	Weight kg/km	Max. tensile strength	
				short term N	long term N
BRUmil 1F	1	3,4	18	1000	750
BRUmil 2F	2	3,8	25	1900	1400
BRUmil 4F	4	3,8	25	1600	1100
BRUmil 8F	8	4,5	39	4000	2000

Type	Min. bending radius		Max. crush resistance N/cm
	with tensile mm	without tensile mm	
BRUmil 1F	15xD	10xD	2500
BRUmil 2F	15xD	10xD	1100
BRUmil 4F	15xD	10xD	1000
BRUmil 8F	15xD	10xD	1300

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BRUfield

Non-metallic mini tactical FO field cable for harsh environment use with strain bearing elements as armoring. Lightweight cable structure with a very small diameter enabling double the length of cable on the same reel than with standard non-metallic field cables

Application

- Tactical military and field applications where flexible robust communications lines are required
- Rapid deployment in harsh environment
- Indoor and outdoor

Description

- Non-metallic cable
- Central non-metallic loose tube construction for up to 4 fibers single-mode or multi-mode
- Higher crush resistance than other non-metallic field cables
- Higher tensile strength than other non-metallic field cables
- Longitudinally watertight
- Compact structure allowing larger quantities to be reeled on single drums
- Very low weight
- Robust sheath halogen-free

Construction

- Outer sheath constructed of either PE or PA sheath with extra abrasion resistance as requested
- Strain bearing elements for armoring and strain relief
- Gel filled non-metallic loose tube
- Up to 4 bend optimized fibers with primary coating
- Labeling on request, individual per reel

Temperature range

- Operating temperature -55 - +85
- Storage temperature -60 - +85

Jacket color

- Black similar to RAL 9005
- Labeling on request, individual per reel

Standards

- IEC 60794
- MIL-PRF-M85045

Remarks

Accessories offered

- Pre-assembly with military lens connectors
- Delivery on various reel sizes for easy deployment, as hand-reels, backpack or vehicle reels
- Adapting cables lens connector to standard connectors
- Deployment aids such as wedge clamps, masts, etc.
- Training for deployment, repair and testing
- Solution engineering and system design



Technical data:

Type	No. of Fiber	Cable mm	Weight kg/km	Max. tensile strength	
				short term N	long term N
BRUfield	1 to 4	3.8	13	1200	650

Type	Min. bending radius		Max. Crush resistance N/cm PE (PA)	Impact resistance Impacts	Repeated bending Cycles
	with tensile mm	without tensile mm			
BRUfield	15xD	10xD	200 (300)	40	2000

BRUtough

3.10.1

Non-metallic tactical field cable with tight buffered fibers for the harsh environment

Temperature range:

- Operating temperature: -55...+85°C
- Storage temperature: -70...+85°C
- Installation temperature: ±0...+50°C

Application:

- Tactical field applications: temporary flexible robust communication lines and mobile applications
- Rapid deployment in harsh surroundings
- Indoor and outdoor
- Inside vehicles or shelters

Jacket color:

- Black, similar to RAL 9005

Standards:

- IEC 60794
- MIL-PRF-M85045
- All tests carried out at 1300/1310nm with $\Delta IL < 0.3 \text{ db}$

Description:

- For direct connector assembling
- Easy to assemble
- Non-metallic cable
- Optimized for repeated cable winding
- High mechanical resistance
- Compact design, high flexibility
- Robust outer sheath
- Halogen free cable sheath
- Individual cable marking for easy identification and traceability on request

Accessories and Services offered:

- Pre-assembling with military lens- or butt joint connectors, delivered on various reels for easy deployment
- Adapting cables e.g. from bulkhead to LC, ST or any standard connectors
- Hand reels, backpack- or vehicle reels
- Deployment aids, like wedge clamps, masts etc.
- Training for deployment and cable testing
- Solution engineering and system design

Construction:

- Outer sheath PUR
- Aramid yarn strength members
- Helically stranded core for better flexibility and higher mechanical protection of the optical fibers
- 900 μm Colour coded Elastomeric tight buffered fibres
- Fibers with Acrylate primary coating for improved micro bending
- Labeling outer sheath on request



Technical data:

Type	No. of fibers, units	Cable \varnothing mm	Weight kg/km	Max. tensile strength	
				short term N	long term N
BRUtough 2F	2	5.0	23.0	1800	600
BRUtough 4F	4	5.5	24.5	1800	600
BRUtough 8F	8	6.5	36.0	1800	600
BRUtough 12F	12	6.5	39.0	2100	700

Type	Min. bending radius		Max. Crush resistance N/cm	Impact resistance (2.25 Nm, R = 25mm) Impacts	Repeated bending (100 N) Cycles
	with tensile mm	without tensile mm			
BRUtough 2F	50	25	150	100	2000
BRUtough 4F	55	30	150	100	2000
BRUtough 8F	65	40	150	100	2000
BRUtough 12F	65	40	150	100	2000

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