

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

© Copyright 2018 by Solifos AG – THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE SOLE PROPERTY OF BRUGG KABEL AG. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE PERMISSION OF BRUGG KABEL AG IS PROHIBITED.

Subject to changes without notice

2018/0610-1