

## Quality and Service

### Safe plug assemblies

Every plug fitted by SOLIFOS has to pass a stringent, in-house testing program.

We are testing the mutual compatibility between plugs from different manufacturers (e.g. in accordance with MIL-DTL-83526/20.../21, equivalent to VG 95319-100) and the compatibility with Solifos cables.

### Communication solutions

Units, brigades or peace missions, both national and international, have to be able to communicate with each other. This requires a flexible, robust and mobile communication and IT infrastructure. We help our customers to integrate IT and communication devices to guarantee simple and rapid installation.

## The wire to the world

### 20 years of experience in the field

Solifos is one of the world's leading suppliers. Its cables have been successfully used in defence technology for 20 years. The extremely sturdy, tactical, fiber-optic field cables, manufactured using a range of military plug types, are a specialty of Solifos.

Our solutions are used on a daily base in the Swiss Army, in the German Bundeswehr and by other NATO members as well as other military forces around the globe. Our extensive accessories for laying cables in the field, testing, maintenance and repair kits, all proven in practice, will cope with the most challenging demands at any time. Our specialist skills come to the fore in the areas of design and system integration to meet individual customer requirements.

## Hybrid system combines the data and power network in a single cable

### Benefits of our hybrid system

- Compact and light: hybrid cables, laying accessories and electronic components
- Support with planning and operation: data flow management system
- Excellent availability: flexible network topology with high redundancy
- Uses local power sources: sun, wind and water power
- Autonomous and flexible: avoids signature sources like diesel engines and wireless devices through positioning outside the camp.

## We're happy to provide support

### User training

The latest technologies demand product-based training sessions and workshops. Solifos advanced training offers a wealth of professional development and training sessions on tactical fiber-optic cables, fiber-optic theory, routing technology, metrology, maintenance, repair and systems.



# SOLIFOS

FIBER OPTIC SYSTEMS



## Defence and Security

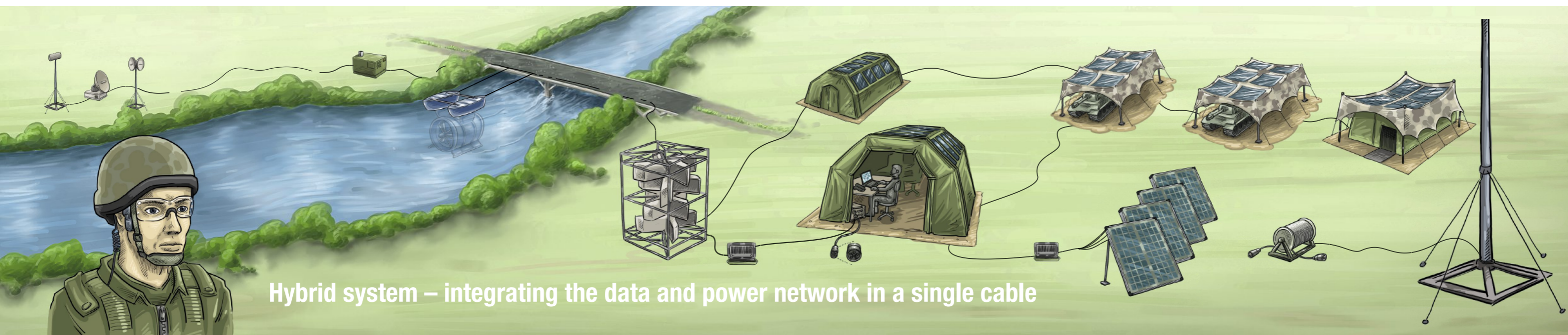
## Fiber Optic Tactical Cable Solutions and Accessories

# The right field cable for every purpose – seven different BRU-cable types from Solifos

## FIBER OPTIC TACTICAL CABLES

## FIBER OPTIC HYBRID CABLES FOR DATA AND ENERGIE

	BRUmil	BRUfield	BRUtough	BRUtough mini	BRUpowermil	BRUpowerfield	BRUpowerfield slim
<b>Type</b>	Unique fiber-optic cable, steel armored with 100% rodent protection. Complies with German Defence Equipment Standard VG95218-30 Type 1. With a diameter of 3.8 mm for four fibers, this solution weighs 25 kg/km.	Nonmetallic fiber-optic cable with a diameter of 3.8 mm for four fibers. This solution weighs 16 kg/km only.	Structure complies with standardized tactical fiber-optic cables. Diameter 5.5 mm, 4 fibers, 25 kg/km.	The design of this cable is similar to the BRUtough but optimized to be of lower volume and lower weight. 3.4mm, 2 fibers, 10 kg/km.	Composite copper-fiber 5.8 mm cable, steel armored. Data transfer via 4x optical fibers and power transmission via 2x1.6 mm <sup>2</sup> copper wires for 1000 VAC or 1500 VDC, current 16 A, all within a single cable design, weight 68 kg/km.	Composite copper-fiber 4.5 mm cable. Data transfer via 4x optical fibers and power transmission via 2x1.0 mm <sup>2</sup> copper wires for 1000 VAC or 1500 VDC, current 10 A, all within a single cable design, weight 36 kg/km.	Composite copper-fiber 3.8 mm. Data transfer via 4x optical fibers and power transmission via 2x0.8 mm <sup>2</sup> copper wires for 1000VAC or 1500VDC, current 6A, all with a single cable design, weight 25 kg/km.
<b>Properties</b>	Excellent anchoring properties using the cable clamp from Solifos. Ideal fiber protection due to the use of a metallic loose tube and steel wire stranding.	Excellent anchoring properties using the cable clamp from Solifos. Plastic loose tube and FRP wire stranding provides best possible fiber protection. Contains no metal.	Flexible and easy to use for short deployment distances. Reduced length per cable coil (higher volume, weight same as for BRUmil). Contains no metal.	Flexible an easy to use for short deployment distances. Less robust than BRUtough but twice as much cable on the same reel size. Contains no metal.	Excellent anchoring properties using the cable clamp from Solifos. Ideal fiber protection thanks to the use of a metallic loose tube and steel wire stranding.	Excellent anchoring properties using the cable clamp from Solifos. Ideal fiber protection thanks to the use of a metallic loose tube. No steel wire reinforcement and reduced copper cross-section for lower weight.	Excellent anchoring properties using the cable clamp from Solifos. Low volume and weight due to a plastic loose tube and one stranded layer of copper wires.
<b>Benefits</b>	Extremely robust and thin. Simple, rapid and reliable cable. Comprehensive accessories available developed by Solifos. With steel reinforcement to protect against rodent damage.	Extremely light weight and thin. Easy handling. Routing is made faster with targeted training in routing and the appropriate accessories. Comprehensive accessories available developed by Solifos.	In this standardized category, one of the best, leading field cables on the market. Comprehensive accessories available developed by Solifos. Also suitable for untrained users.	Light weight and low volume leads to easy handling and safes space for storage.	Extremely robust. Reduced effort for routing data and power networks. Comprehensive accessories available developed by Solifos. With steel reinforcement to protect against rodent damage.	Reduced effort for routing data and power networks. Noticeably slimmer and lighter compared to BRUpowermil. Comprehensive accessories available developed by Solifos.	Regarding high bandwidth and high power transmission outstanding volume and weight.
<b>Use</b>	Suitable for universal use in the field.	Suitable weight/volume for routing using a hand reel or a backpack.	Successfully used for years by the Swiss Army. Suitable for short distances.	Inside field camps deployed with hand-reels for short distances.	Longer transmission distances; for routing by vehicle.	Up to 400 m on hand reel and 500 m on a backpack reel, making it suitable for manual routing or routing using a backpack system.	Unmanned aerial vehicles and similar applications for operations with very long duration.



Hybrid system – integrating the data and power network in a single cable