

## BRUpowerfield

Hybrid tactical FO/Cu field cable for harsh environment use, with strain bearing elements as armoring. With its lightweight / low-volume cable structure for data and electrical power transmission it has outstanding characteristics.

- Outer layer: copper wires and/or ARP rods (aramid reinforced plastic)
- Inner layer: copper wires
- Gel filled non-metallic loose tube
- Up to 4 bend optimized fibers with primary coating

### Application

- Tactical military and field applications where flexible robust combined power and communication lines are required
- Drone Tethering
- Rapid deployment in harsh environment
- Indoor and outdoor

### Temperature range

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

### Jacket color

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

### Description

- FO-Cu-Hybrid-Cable for power and data transmission
- Central non-metallic loose tube construction for up to 4 fibers single-mode or multi-mode
- Two isolated coaxial layers of copper wire stranding. The outer layer has additional aramid reinforced plastic strands.
- High crush resistance
- High tensile strength
- Longitudinally watertight FIMT
- Compact structure allowing larger quantities per drum
- Low weight
- Robust sheath halogen-free

### Standards

- IEC 60794
- MIL-PRF-M85045

### Power transmission;

$U_{max}$ : 1000VAC/1500VDC

Test voltage: 3500VAC

$I_{max}$ : 10A

### Remarks

#### Accessories offered

- Pre-assembly with military hybrid-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 20 °C:

Type	No. of fibers	cable ø mm	Weight Kg/km	Max crush resistance N/cm	Max. tensile strength	
					Short term N	Long term N
BRUpowerfield	4	4.8	44	300	1500	1150

Type	Min. bending radius		Cu cross section area mm <sup>2</sup>	Nominal current A	Voltage ratings	
	With tensile mm	Without tensile mm			kV (AC)	kV (DC)
BRUpowerfield	72 (15xD)	48 (10xD)	1.3	10	1,0	1,5