

BRUpowermil

3_7_12

Hybrid tactical FO/Cu field cable for harsh environment use. With its coaxial and compact 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

Applications:

- 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

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
- 100% rodent proof
- Longitudinally watertight FIMT
- Compact structure allowing larger quantities per drum
- Low weight
- Robust sheath halogen-free

Construction

- Outer sheath constructed of PA sheath with extra abrasion resistance as requested
- Stainless steel strain bearing elements for armoring and strain relief

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

Power transmission;

U_{max}: 1000VAC/1500VDC

Test voltage: 3500VAC

I_{max}: 16A

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
BRUpowermil 4F	4	5,8	68	1000	2800	1750

Type	Min. bending radius		Cu cross section area mm ²	Nominal current A	Voltage ratings	
	With tensile mm	Without tensile mm			kV (AC)	kV (DC)
BRUpowermil 4F	87 (15xD)	58 (10xD)	1.6	16	1,0	1,5

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