BRUpowermil

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Hybrid field cable for harsh environments, with stainless steel loose tube for maximum 4 fibers and two coaxial conductors for electrical power transmission.

LLK-BPML, patented

Description:
- Central stainless steel loose tube with 4 fibers, single- or multimode and two stranded coaxial copper wires
- High crush resistance
- High tensile strength
- Excellent rodent proof
- Compact design,
- High flexibility l
- Low weight
- Robust sheath halogen-free
- RoHS compliant
- To brace with wedge clamps

Construction:
- Double layered outer PA sheath with extra abrasion resistance
- Armoring and strain relief made of stain- less steel wires in combination with external copper conductor
- PA sheath
- Internal copper conductor
- Gel-filled stainless steel loose tube
- Fibers with primary coating

Application:
- Indoor and outdoor l
- Combination of power transmission and fiber-optic communication over long distances
- Tactical military or civil applications: temporary robust communication lines with power supplying to remote communication equipment
- Rapid deployment in harsh surroundings

Temperature range:
- Operating temperature: -45...+85°C
- Storage temperature: -55...+85°C

Jacket color:
- Anthracite similar to RAL 9011

Standards:
- IEC 60794
- MIL-STD-810F

Deployment:
- When installing this cable, the appropriate installation and application guidelines should be respected and abided by. These guidelines and further questions can be obtained at the Brugg Cables Engineering Department.

Accessories and Services offered:
- Pre-assembling with special hybrid military lens connectors, delivered on various reels for easy deployment
- 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	Cable	Weight	Electrical resistance	Rated current	Operating voltage	
	mm	kg/km	Ohm/km	A	kV (AC)	kV (DC)
LLK-BPM 4F	5.8	68	22	13	1.0	1.5

Type	Max. no. of fibres	Min. bending radius		Max. tensile strength		Max. Crush resistance
	units	with tensile mm	without tensile mm	short term N	long term N	N/cm
LLK-BPF 4F	4	15xD	10xD	2800	1750	1000

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BRUpowerfield

Optimized Hybrid field cable for harsh environments, with reinforced loose tube that holds up to 4 fibers and two coaxial layers of electrical conductors for electrical power transmission.

Application:

- Combination of power transmission and fiber optic communication over long distances.
- Tactical military or civil applications: temporary robust communication lines with power supplying to remote communication equipment
- Rapid deployment in harsh surroundings
- Indoor and outdoor

Description:

- Excellent crush resistance
- High permissible tensile strength
- Good rodent protection
- Compact structure, high flexibility
- Very low weight
- Robust sheath halogen free

Construction:

- Fibers with primary coating
- Gel filled stainless steel loose tube
- Internal stranded copper conductor
- PA sheath
- External stranded copper conductor
- Armoring and strain relief made of aramid yarns
- Outer PE sheath (optional PA)

Temperature range:

- Operating temperature: -45...+85°C
- Storage temperature: -55...+85°C

Jacket color:

- Anthracite similar to RAL 9011

Standards:

- IEC 60794
- MIL-STD-810F
- EN 61984:2001

Deployment:

- When installing this cable, the appropriate installation and application guidelines should be respected and abided by. These guidelines and further questions can be obtained at the Brugg Cables Engineering Department.

Accessories and Services offered:

- Pre-assembling with special hybrid military lens connectors, delivered on various reels for easy deployment
- 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	Cable	Weight	Electrical resistance	Rated current	Operating voltage	
	mm	kg/km	Ohm/km	A	kV (AC)	kV (DC)
LLK-BPF 4F	4.6	36	34	6	1.0	1.5

Type	Max. no. of fibres	Min. bending radius		Max. tensile strength		Max. Crush resistance
	units	with tensile mm	without tensile mm	short term N	long term N	N/cm
LLK-BPF 4F	4	15xD	10xD	1500	1200	1000

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