



LLK-UKP

Laser light cable for industrial ultrafast lasers LLK-UKP

- Packaging of the fiber to build a laser light cable
- Connectors
- Conduit
- Fiber continuity monitoring

Technical data LLK-UKP

Length of cable including connectors	2, 3, 5, 10 m *
Fiber	Micro structured hollow core fiber

Optical Parameters

Beam parameter acceptance	Single mode laser beam
Mode field diameter	40 μm *
Max. average laser power	500 W **
Max. pulse energy	500 μJ **
Wavelength range	900 - 1100 nm
Typical transmission	93% +/- 3% / 10 m length
GVD parameter	+/- 3 ps / (nm*km) ***

Connector laser side optics side

Optical pre-alignment	PT-F (Photonic Tools flange design), others on request
Cooling	Can be actively water-cooled
Max. gas pressure	50 bar

Monitoring and electrical interface

Breakage, plug-in and temperature monitoring for interfacing to continuity monitoring	0-10 V according to typical standards
Relative temperature and stray light indicators (optional)	On request
Data logging	On request

Protective conduit

Suitable for dynamic movements on robot or gantry system in a cable management system	
Bending radius	> 250 mm

Accessories

Connector receptacles | Single mode beam launching system | Collimation modules | Processing heads

All data subject to change without prior notice

*others on request, **subject to coupling conditions, ***air filled micro structure

