

## D-LL 7XX Fibre optic systems

Flame monitoring for difficult environments

- Protection of the optical flame monitor
- Normal operation even during cleaning
- Constantly good optical view



## FEATURES

- About 130 fibres in the fibre optic bundle
- Reproducible positioning and alignment of the optics after cleaning
- Different versions for variable applications
- Lengths of 20 m and more possible
- Different flame sensors/monitors can be used without modification
- Fibre optic system not part of the Ex-certificate for the flame monitor

## BENEFITS

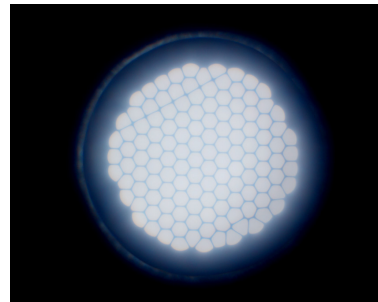
- Protection of the optical flame monitor against particularly high temperatures or strong vibrations
- Constantly good optical view for use in confined spaces or with tilting burners
- Long life time due to high number of fibres
- Normal operation even during cleaning of the fibre optic system

## TECHNICAL DATA

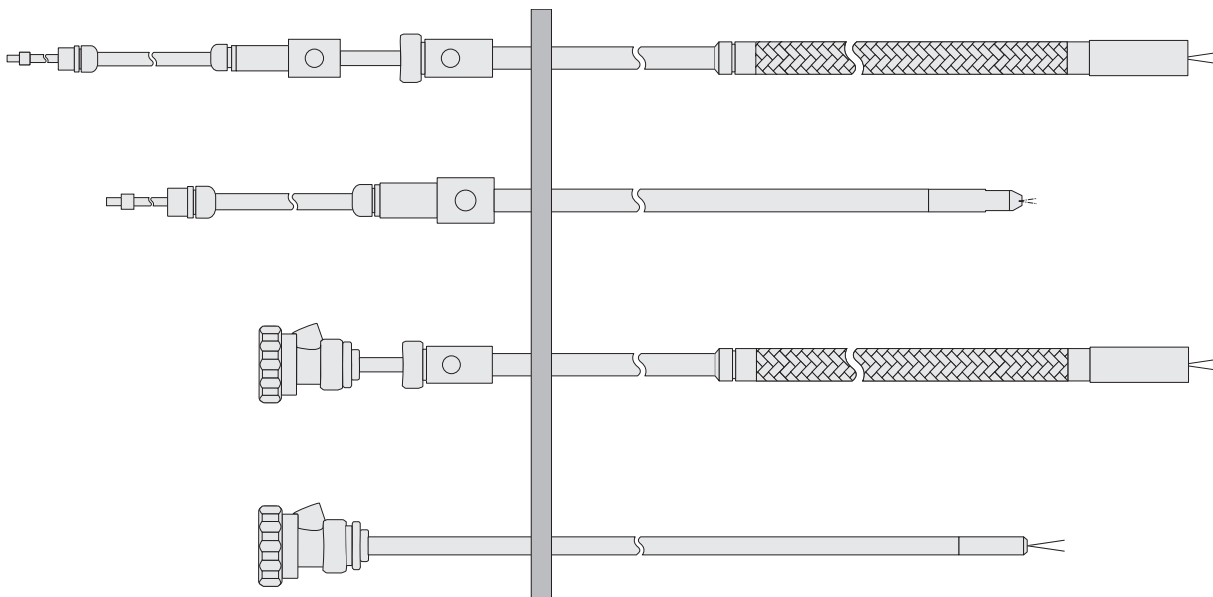
<b>Spectral transmission</b>	UV, IR
<b>Opening angle</b>	6°
<b>Ambient conditions</b>	For fibre optic cable: -40 ... +350 °C
<b>Connections</b>	Purge air G ½" Cooling air (only D-LL 703 and D-LL 701) G ½"
<b>Weight</b>	<ul style="list-style-type: none"> <li>• D-LL 701: Approx. 1.6 kg + 1 kg/m</li> <li>• D-LL 702: Approx. 1.6 kg + 1 kg/m</li> <li>• D-LL 703: Approx. 3 kg + 1 kg/m</li> <li>• D-LL 704: Approx. 2 kg + 1 kg/m</li> </ul>
<b>Material</b>	Intermediate tube/guide tube: Stainless steel 1.4301

Fibre optic systems	Applicable flame sensors and flame monitors
D-LL 701, D-LL 702 (direct connection)	D-LE 701
D-LL 701, D-LL 702 (connection via special adapter)	D-LE 703, D-LX 701, D-LX 710, D-LX 721
D-LL 703, D-LL 704	D-LE 703, D-LX 701, D-LX 710, D-LX 721

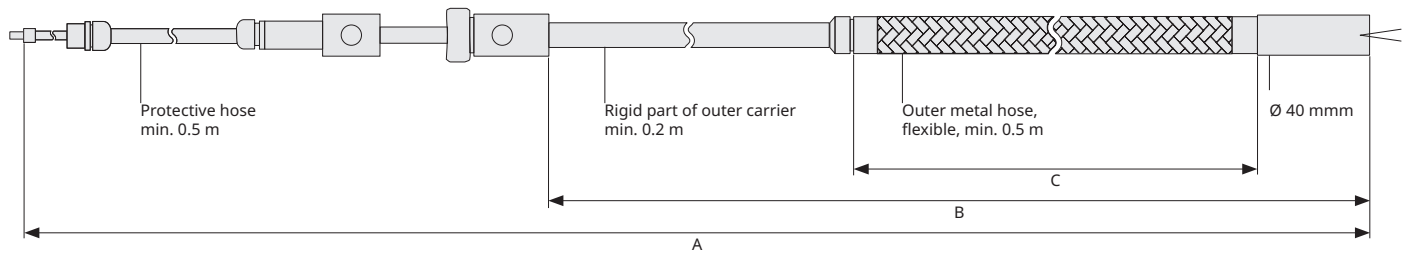
Picture right: Cross-section through the optical fibre. The high number of individual fibres allows for longer lifetimes of the fibre optic system.



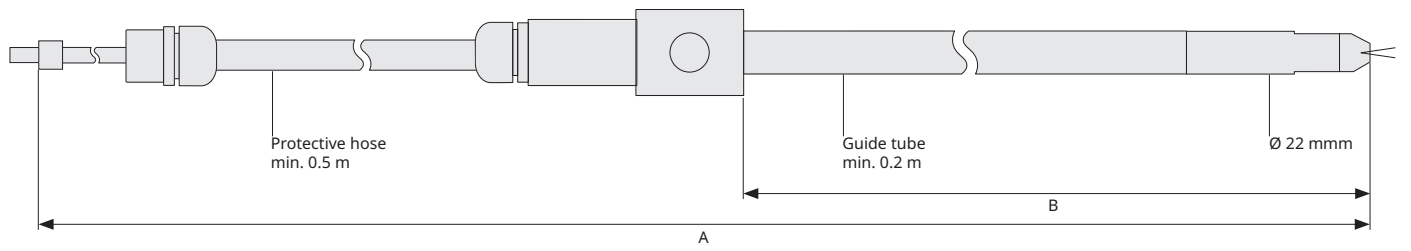
## FIBRE OPTIC SYSTEMS | POSITIONING IN RELATION TO THE BURNER PLATE (GREY BAR)



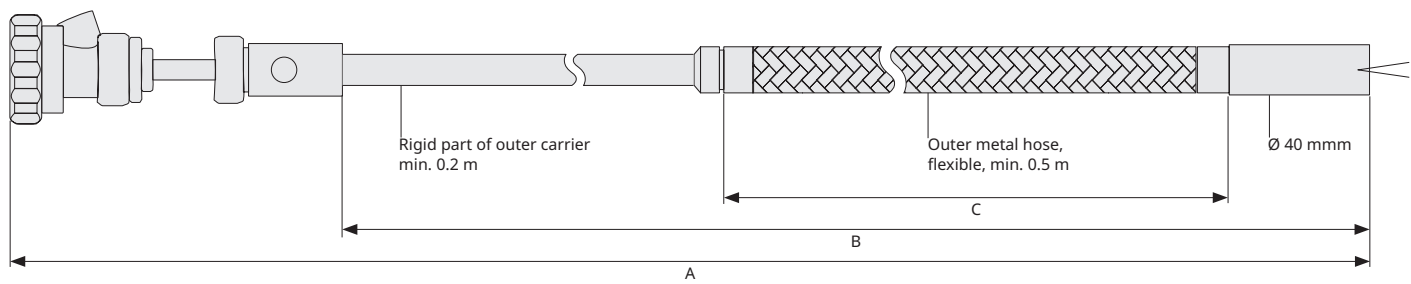
D-LL 701 | FLEXIBLE FIBRE OPTIC SYSTEM FOR D-LE 701



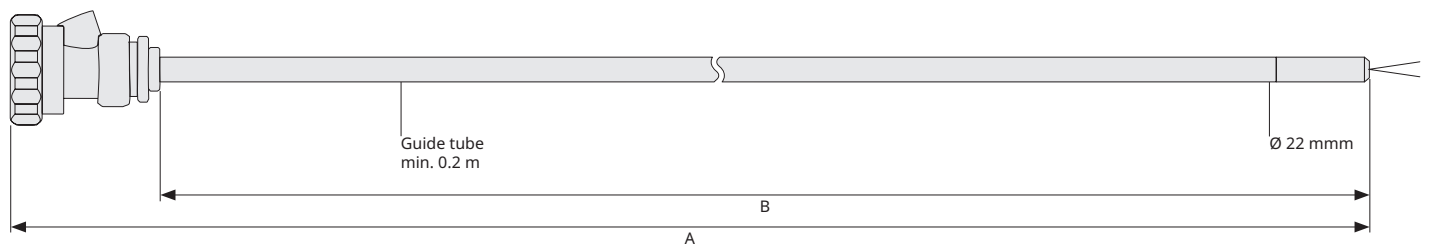
D-LL 702 | RIGID FIBRE OPTIC SYSTEM FOR D-LE 701



D-LL 703 | FLEXIBLE FIBRE OPTIC SYSTEM FOR D-LE 703, D-LX 701, D-LX 710 AND D-LX 721



D-LL 704 | RIGID FIBRE OPTIC SYSTEM FOR D-LE 703, D-LX 701, D-LX 710 AND D-LX 721



Length specifications required at order:

- A Length fibre optic system
- B Maximum penetration depth
- C Flexible length outer carrier

**DURAG GROUP**

**DURAG GROUP**

Kollaustrasse 105  
22453 Hamburg, Germany  
Phone +49 40 55 42 18-0  
Fax +49 40 55 42 54  
info@durag.com

[www.durag.com](http://www.durag.com)