



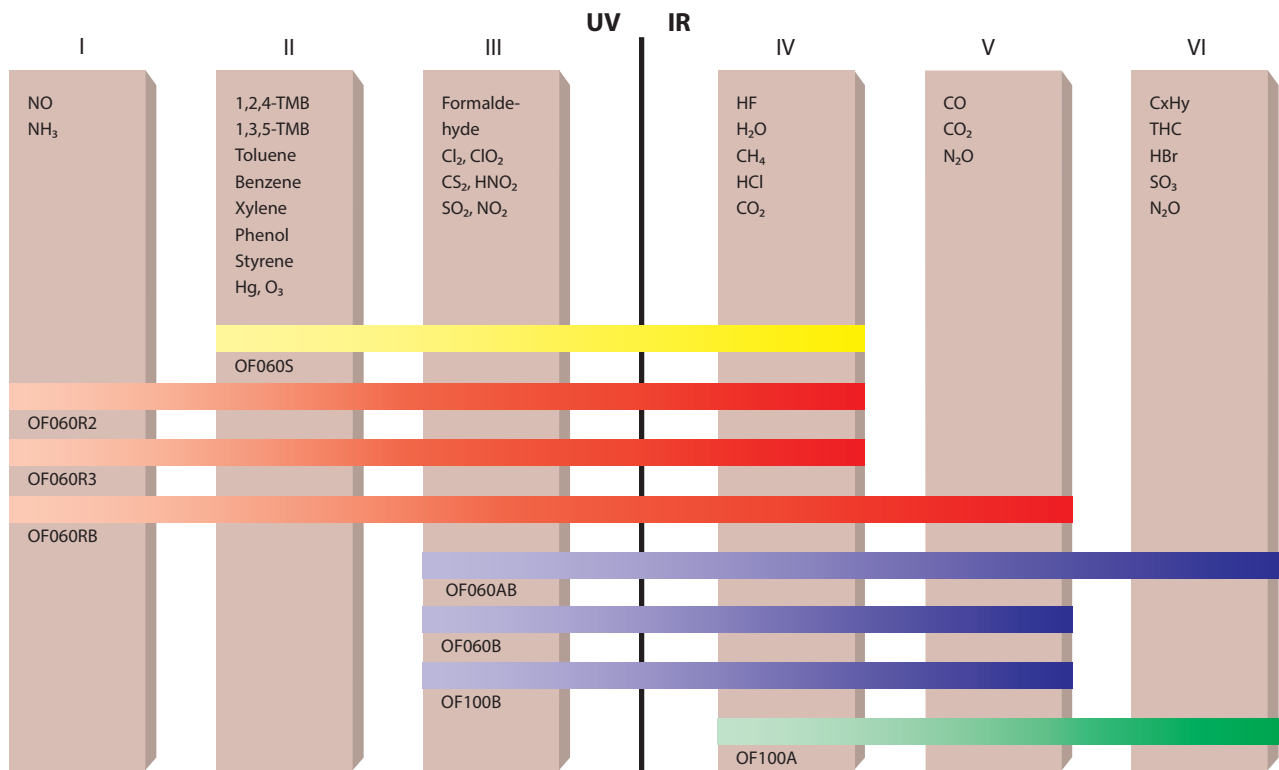
OF060/OF100

Fibre Optic Cables

Fibre optic cables are required in an OPSIS system to carry received light from a light path to the analyser. Eight types of fibre optic cables, detailed on the reverse of this product sheet, are available. Briefly, the standard fibre cable (OF060S) is used in air quality monitoring applications together with the AR500 or AR600 series analyser, monitoring nitrogen dioxide (NO₂), sulphur dioxide (SO₂), ozone (O₃), mercury (Hg) and many hydrocarbons. Fibre cables type OF060R2 and OF060R3 are used when monitoring gases with absorption spectra in short, ultraviolet wavelengths, such as nitrous oxide

(NO) and ammonia (NH₃), in continuous emissions monitoring applications together with the AR500 or AR600 series analyser. The fibre cables OF060B and OF060RB are suitable for monitoring gases in the long, infrared wavelength ranges, such as CO, CO₂, HF and CH₄, using the AR600 analyser.

The OF100A, OF100B and OF060AB optical fibres are used together with the OPSIS AR550 and AR650 analysers, monitoring gases in the long, infra-red wavelength ranges.



Technical Specifications

	OF060/OF100
Cable diameter	9 mm
Access hole (min.)	Ø12 mm
Terminations	Ø3.8 mm, screw type. The protective cladding is strengthened by Kevlar threads.

Recommended maximum fibre length

Compound category	OF060S	OF060R2 ⁽¹⁾	OF060R3 ⁽¹⁾	OF060RB ⁽¹⁾⁽³⁾	OF060B	OF060AB ⁽¹⁾⁽³⁾	OF100B	OF100A ⁽¹⁾
I	—	10 m	20 m	20 m	—	—	—	—
II	25 m	25 m	50 m	50 m	—	—	—	—
III	50 m	100 m	100 m	100 m	50 m	50 m	50 m	—
IV	25 m	25 m	25 m	100 m	100 m**	100 m**	100 m**	10 m
V	—	—	—	10 m	10 m	10 m	10 m	10 m
VI	—	—	—	—	—	10 m	—	10 m

When several compounds from different categories are to be combined, the shortest fibre optic cable has to be used.

When only selected gases are monitored in a group, the fibre cable may be longer than specified above.

⁽¹⁾ A protection filter is required.

⁽²⁾ For HF, the recommended maximum fibre length is 200 m.

⁽³⁾ Requires key pin.