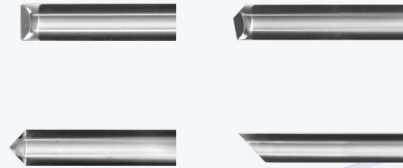


PRODUCT INTRODUCTION

Lensed Fibre



EDFA is the most widely used optical fibre amplifier in the field of optical fibre communication. As one of core components of EDFA, the lensed fibre is used to couple as much laser from the semiconductor laser chip into the fibre as possible, so that the seed laser source has high power. Lensed fibre is also widely used in the fields of fibre optic gyroscope, optic fibre sensing and tunable external-cavity semiconductor laser. YOSC can provide high quality wedge, oblique wedge and tapered lensed fibres.

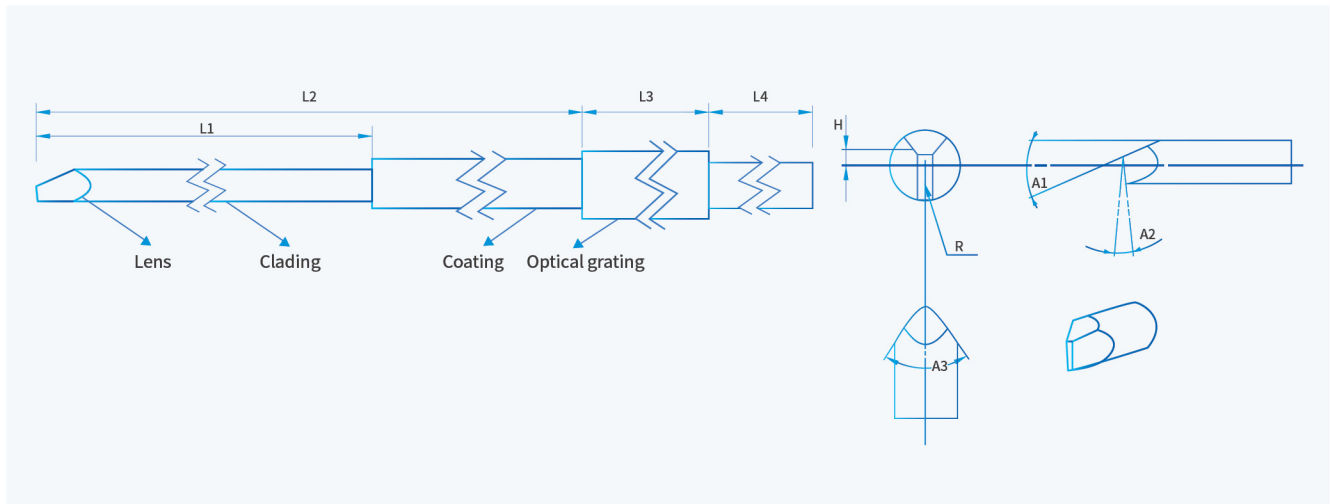
+ Features

- The end face of the optical fibre is a cylindrical lens or a spherical lens
- Geometric indicators are customizable
- Optical indicators are customizable
- High coupling efficiency
- High machining accuracy
- Low insertion loss
- The bare fibre can be metallized
- The end face can be coated
- Different types of connector are available

+ Applications

- EDFA pump laser
- Fibre optic gyroscope
- Optical fibre sensing
- Laser radar
- Laser medical treatment
- Micro-lighting

Enhanced graph



Parameters

Specifications

Type	Wedge Lensed fibre	Angle wedged lensed fibre	Taper lensed fibre	Angle polished fibre	Tolerance	Unit
Fibre Type	SM/MM/PM/Customized				/	/
Stripping Length	5 ~ 25 / customized				±0.5	mm
Wedge/cone/ oblique Angle	35 ~ 130	35 ~ 130	30 ~ 130	25 ~ 60, 81 ~ 90	±2.5	°
Top Chamfer	/	17 ~ 65	/	/	±2.5	
AR Bevel	/	8 / Customized	/	/	±1	
Tip-to-core Distance of fibre H	/	15 / Customized	/	/	±5	μm
Curvature radius R	4 ~ 40				±1	
Connector (optional)	FC/PC; FC/APC; customized	FC/PC; FC/APC; customized	FC/PC; FC/APC; customized	FC/PC; FC/APC; customized	/	/
AR Coating (optional)	R < 0.2% @ specified band	R < 0.2% @ specified band	R < 0.2% @ specified band	R < 0.2% @ specified band	/	
Metallization (optional)	customized	customized	customized	customized	/	
Connector Slow Axis Position (only PM fibre)	0 / 90	0 / 90	/	0 / 90	±5	°
Mirror ridge slow axis position (only PM fibre)	0 / 90	0 / 90	/	0 / 90	±5	

Environmental indicators

Items	Minimum	Maximum
Operating temperature range (°C)	-40	85
Relative humidity (%RH)	-	85
Environmental/reliability testing	Compliant with Telcordia GR-2854 and GR-1221 standards	

Packaging style

Packaging style	Dimension (mm)
Standard dimension	316×291×21.5
Others	Neutral packaging or according to customer requirements