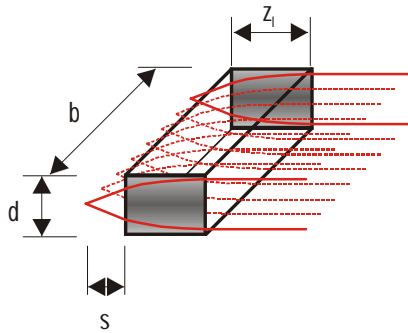


GRIN Cylindrical Lenses

- § Gradient index lenses for the fast axis collimation of high power laser diode bars, high brightness diodes and other beam shaping purposes
- § Plane surfaces



Order example: GT-LFCL-100-024-50-CC (810)

					Design wavelength
					Coating Code
					N.A.: 0.5
					Pitch: 0.24
					Thickness: 1.0 mm
					Laser Focusing Cylindrical Lens
					GRINTECH

- § Working distance, design wavelength and lens length deviating from these standards can also be produced
- § different lens width available upon request
- § ZEMAX files can be [DOWNLOADED](#) from our website

Pitch P	Working distance s (mm)	Numerical Aperture NA	Lens length z_1 (mm)	Focal length f (mm)	Gradient constant g (mm ⁻¹)	Refractive index at the center of the profile n_0	Width b (mm)	Wavelength λ (nm)	Product code
Thickness d : 1.0 mm									
0.24	0.08	0.5	2.34	0.97	0.634	1.624	14	810	GT-LFCL-100-024-50-CC (810)

GRIN cylindrical lenses are offered with antireflection coatings ($R < 0.5\%$ for the design wavelength and incidence angles of $0 \dots 30^\circ$ corresponding to measurements on a reference substrate)

Coating Code: NC: no coating (reflection loss approx. 12%)
C2: $\lambda = 800 \dots 960$ nm

Variations due to modifications of the production process are possible.
It is the user's responsibility to determine suitability for the user's purpose.

Tolerances:

lens length z_1 : $\pm 6\%$ due to variations of the gradient constant
thickness d: ± 0.02 mm
working distance s: ± 0.03 mm

Surface quality:

5 / 3 x 0.025; L 3 x 0.005; E 0 (defined by DIN ISO 10110-7:2000-02).
The surface quality is defined within 90% of the thickness and within $b - 1$ mm of the width. Outside of this area defects are allowed.