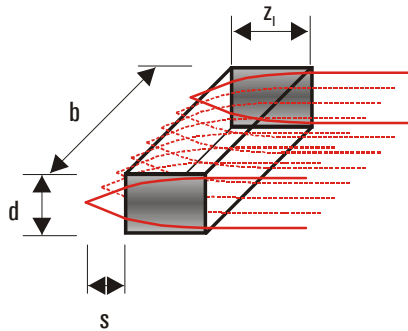


## GRIN Cylindrical Lenses

- 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 <sub>1</sub> (mm)	Focal length f (mm)	Gradient constant g (mm <sup>-1</sup> )	Refractive index at the center of the profile n <sub>0</sub>	Width b (mm)	Wavelength λ (nm)	Product code
<b>Thickness d : 1.0 mm</b>									
0.24	0.08	0.5	2.34	0.97	0.634	1.624	14	810	GT-LFCL-100-024-50-CC (810)
0.24	0.08	0.5	2.35	0.98	0.632	1.621	14	940	GT-LFCL-100-024-50-CC (940)

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<sub>1</sub>:  $\pm 6\%$  due to variations of the gradient constant  
 thickness d:  $\pm 0.02$  mm  
 working distance s:  $\pm 0.03$  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.