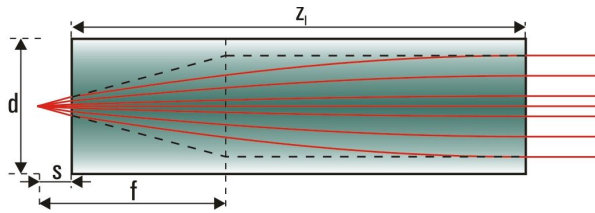


GRIN Rod Lenses with intermediate NA = 0.30

Gradient index lenses for fiber coupling, beam shaping of laser diodes and imaging applications



Order example: GT-LFRL-100-025-33-CC (670)
 | Design wavelength
 | Coating Code
 | NA: 0.33
 | Pitch: 0.25
 | Diameter: 1.0 mm
 Laser Focusing Rod Lens
 GRINTECH

§ Working distance, design wavelength and lens length deviating from these standards can also be produced

§ 8° angled facet are available on request

§ ZEMAX files can be [DOWNLOADED](#) from our website

Pitch P	Working distance s (mm)	Numerical Aperture NA	Lens length z _l (mm)	Focal length f (mm)	Gradient constant g (mm ⁻¹)	Refractive index at the center of the profile n ₀	Wavelength λ (nm)	Product code
Diameter d: 0.5 mm								
0.25	0	0.30	2.05	0.83	0.767	1.567	670	GT-LFRL-050-025-30-CC (670)
0.23	0.10	0.30	1.89	0.84	0.767	1.567	670	GT-LFRL-050-023-30-CC (670)
0.25	0	0.30	2.06	0.84	0.762	1.562	810	GT-LFRL-050-025-30-CC (810)
0.23	0.10	0.30	1.90	0.85	0.762	1.562	810	GT-LFRL-050-023-30-CC (810)
0.25	0	0.30	2.08	0.85	0.756	1.556	1310-1550	GT-LFRL-050-025-30-CC (1550)
0.23	0.10	0.30	1.92	0.86	0.756	1.556	1310-1550	GT-LFRL-050-023-30-CC (1550)

GRIN rod 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 %)
 C1: λ = 450 ... 690 nm
 C2: λ = 800 ... 960 nm
 C5: λ = 1310 ... 1550 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: ± 5% due to variations of the gradient constant
 working distance s: ± 0.02 mm
 diameter d: + 0 / -0.01 mm
 Please ask for tighter diameter tolerances

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 lens diameter. Outside of this area defects are allowed.

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