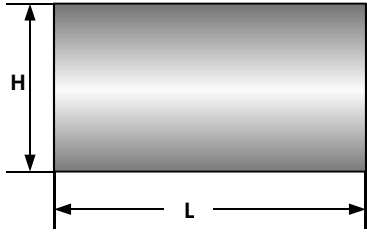


Plano-convex cylindrical lenses

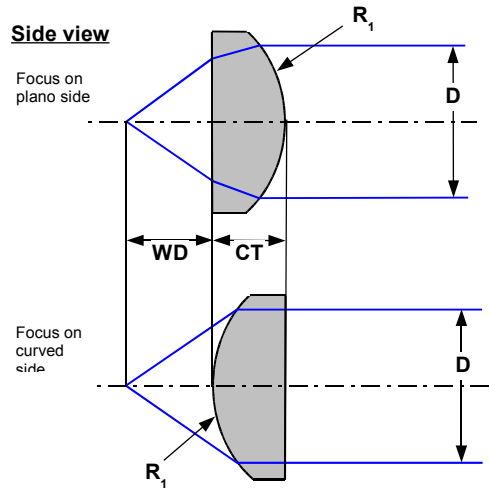
Surface 1 : Pure radius
Surface 2 : Plano

LENS DRAWING

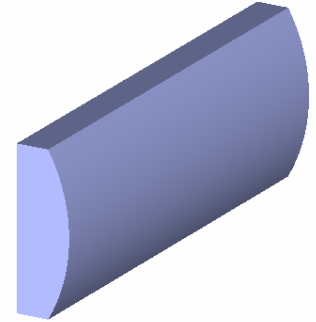
Front view



Side view



3D view



LENS DESIGN INFORMATION

Ordering Code	Paraxial data ^{1,2}	Dimensions ¹			Surfaces data ¹	
	EFL	H	CT	L	1	2
CYL_PCX_MAT_R1_H_CT_L_AR(λ_1 - λ_2)					R_1	R_2
Material: custom						
Use ordering code						
or contact us for details at:						
sales@doriclenses.com						

1. All units are mm
2. Given at $\lambda = 632.8$ nm.

Useful formulae

$$EFL = \frac{R}{(n-1)}$$

Focus on curved side: $WD = EFL$

Focus on plano side: $WD = EFL - CT/n$

$$D = 2 \cdot EFL \cdot NA$$

Legend

EFL: Effective focal length

Φ : Rod diameter

L: Rod length

NA: Numerical aperture

R: Radius of curvature

n: Refractive index

WD: Working distance

H: Lens height

AR($\lambda_1 - \lambda_2$): Anti-reflection coating wavelength range

D: Beam diameter

CT: Central thickness

