



# LEICA **ELMARIT-TL** 18 mm f/2.8 ASPH.

Technical data.



Illustrations 1:1

Lens	Leica Elmarit-TL 18 mm f/2.8 ASPH.	
Order no.	11 088 black anodized	11 089 silver anodized
Compatible cameras	All Leica cameras with Leica L bayonet	
Angle of view (diagonal, horizontal, vertical)	Approx. 75°, 65°, 46°, corresponding to around 27mm focal length in 27mm format	
Optical design	Number of lenses/groups: 8/6 Aspherical surfaces: 4 Position of entrance pupil (at infinity): -12.5 mm (in direction of light incidence in front of bayonet mount)	
Distance setting	Setting/Function: Electronically controlled Mode selectable using camera menu: Automatic (AF) or manual (M), in AF mode manual override possible at any times with setting dial Focusing range: 0.3 m to ∞ Smallest object field/largest scale: approx. 343 x 228 mm/1:14	
Aperture	Setting/Function: Electronically controlled, adjustment using dial on camera, third values also available Lowest value: 16	
Bayonett fitting	Leica L bayonet with contact strip	
Filter mount/ Lens hood	Internal thread for E39 filters, filter mount does not rotate	
Finish	Black/silver anodized	
Dimensions and Weight	Length to bayonet mount: approx. 21 mm Largest diameter: approx. 62mm Weight: approx. 80 g	



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## ENGINEERING DRAWING

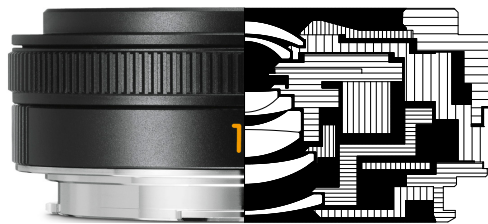
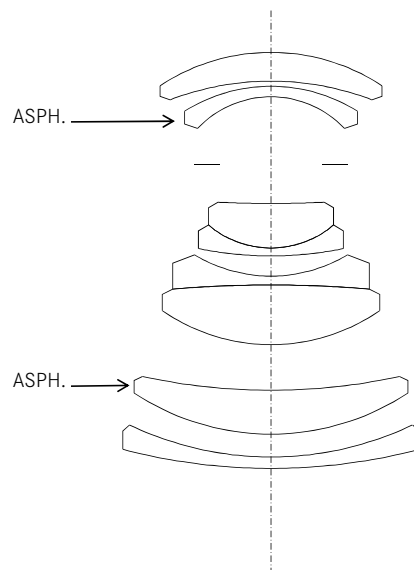


Illustration 1:1

## LENS SHAPE



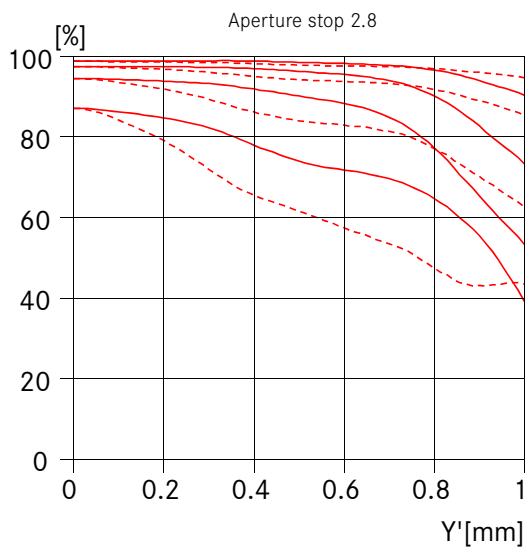


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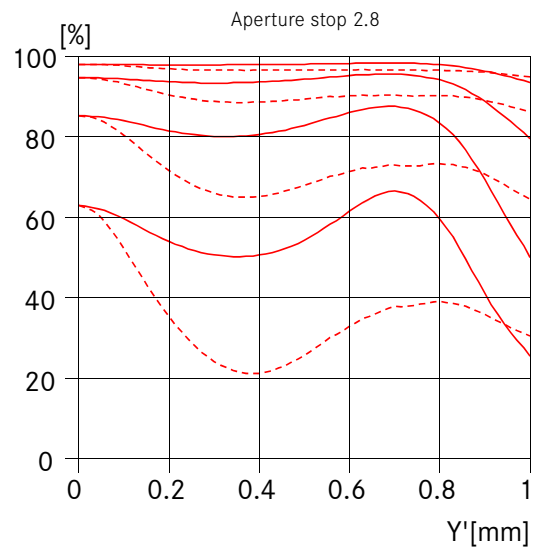
## MTF DIAGRAMS

Focal length 18 mm

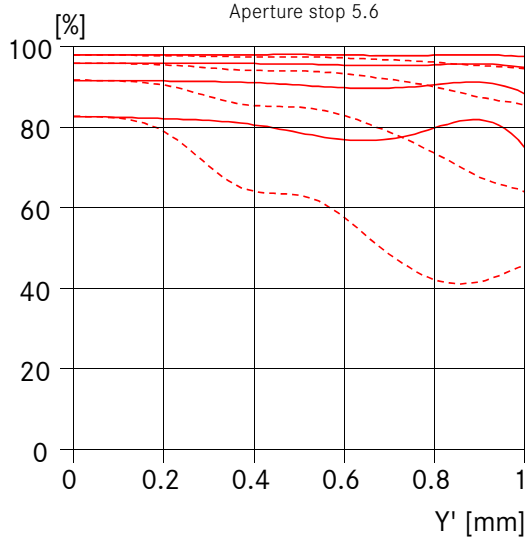
Infinity



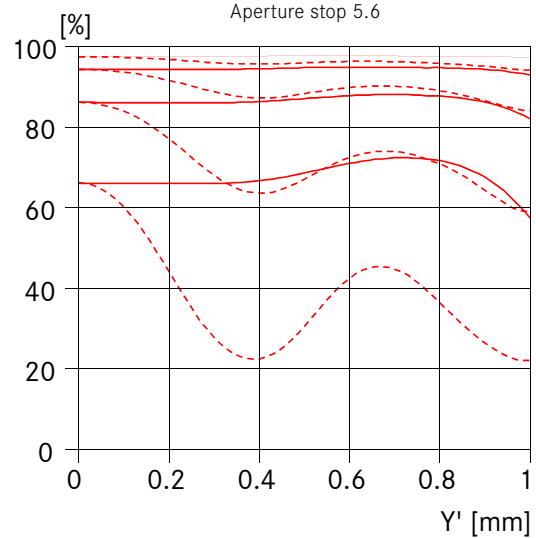
Close focus distance



Aperture stop 5.6



Aperture stop 5.6



— Sagittal structures  
- - - Tangential structures

## MTF GRAPHS

The MTF is indicated both at full aperture and at f/5.6 for long distances (infinity) and close focussing distance. Shown is the contrast in percentage for 5, 10, 20 and 40 lp/mm across the height of the 35 mm film format, for tangential (dotted line) and sagittal (solid line) structures, in white light. The 5 and 10 lp/mm will give an indication regarding the contrast ratio for large object structures. The 20 and 40 lp/mm records the resolution of finer and finest object structures.