



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

Technical data.



Illustrations 1:1

<b>Lens</b>	<b>Leica Elmarit-TL 18 mm f/2.8 ASPH.</b>
Order no.	Black anodized: 11 088 Silver anodized: 11 089
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
Bayonet 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

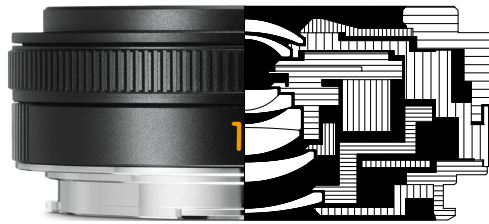
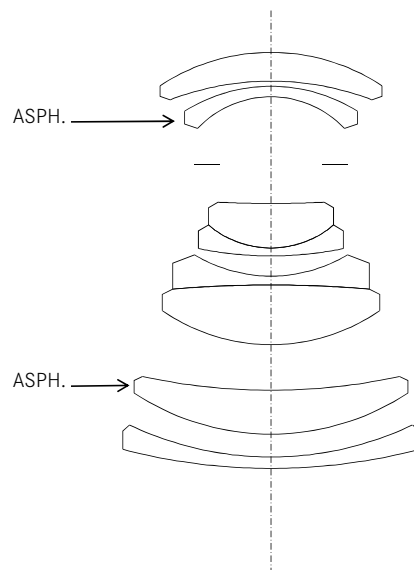


Illustration 1:1

## LENS SHAPE





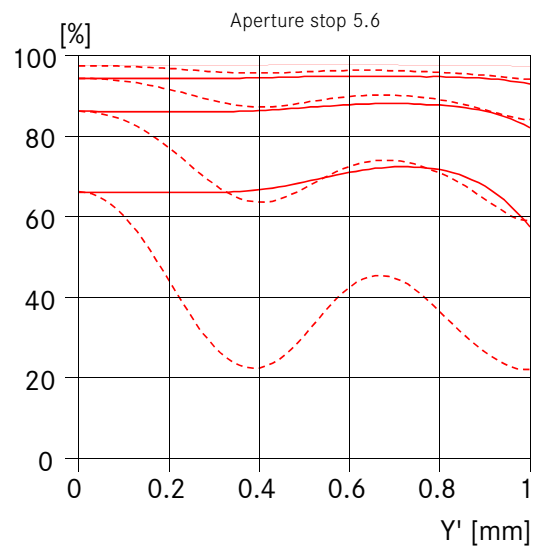
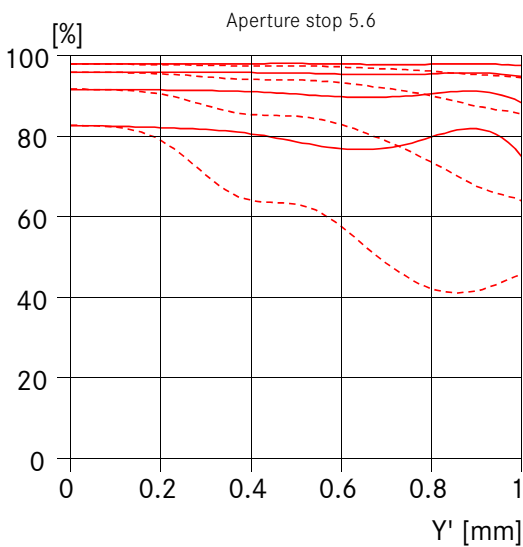
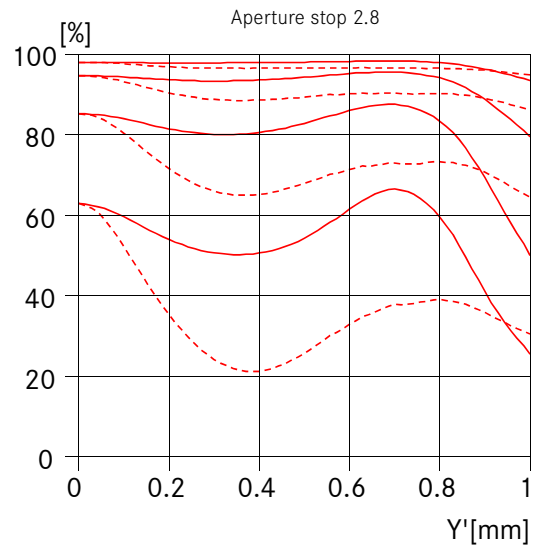
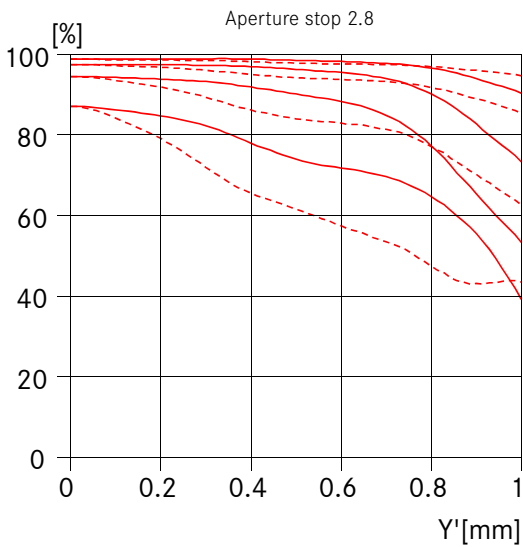
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## MTF DIAGRAMS

Focal length 18 mm

Infinity

Close focus distance



— 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.