

"Your monitoring specialist"  
certified ISO 9001 + ISO 14001



## Crimping Line

# Micrograph laboratory **Microlab ML 3600**

Tabletop laboratory for cross-section analysis



*With the Microlab you can prepare microsections of crimped contacts in a very professional and economic manner.*

The Microlab product family is designed to prepare cross sections of conductor crimps and insulation crimps easily and comfortably within a few minutes. After cutting, polishing and etching of the sample, the image of the cross section can be visualized on the screen. Now a comprehensive quality check of the crimp can be performed by using the special designed image processing software X-Scan.

The **Microlab ML 3600** is the ideal tool to conduct quality tests in a quick and economic way. The proven 4x zoom optic is easy to use and delivers very good digital colour pictures. For the analysis, you use the innovative and comfortable image processing software X-Scan which of course fulfills all relevant DIN standards and OEM specifications. Automatically generated records can be used as proofs of quality.

## Performance features

- Complete micrograph laboratory integrated in a desktop board
- Excellent optic with **4x zoom objective**
- Superior digital color camera** with 1/3" CMOS Sensor and 1,3 megapixel resolution
- Well suited for cross sections from **0.1 to 10 mm<sup>2</sup>** (AWG 28 – AWG 10)
- Comfortable analysis **software X-Scan**

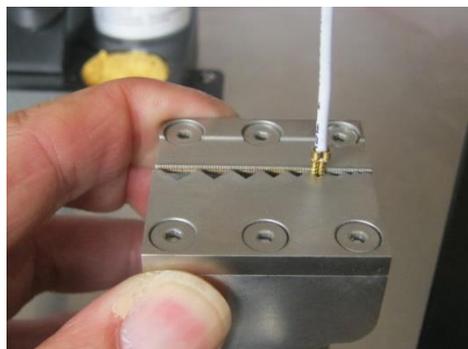


C-tec Cable technologies GmbH & Co.KG  
Ilztalstraße 11 Tel.: +49 (0) 8554 – 94 23 9-0  
D-94513 Schönberg Fax: +49 (0) 8554 – 94 23 9-20

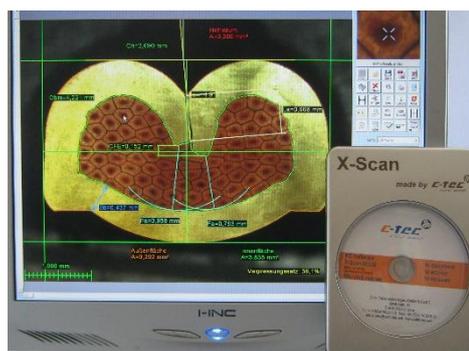
eMail: [info@cable-tec.net](mailto:info@cable-tec.net)  
HP: [www.cable-tec.net](http://www.cable-tec.net)



## Crimping Line



Terminal holder



Finished microsection with X-Scan

### Performance features in detail

- Complete system which is ergonomically and functionally integrated in a desktop board laminated with stainless steel
- Proven zoom objective with **4 optical zoom grades**
- Digital color camera** with 1/3" CMOS Sensor, USB 2.0, resolution 1280 x 1024 px (1.3 Megapixel)
- Suitable especially for small and medium contact sizes **0.1 – 10 mm<sup>2</sup>**
- Standard terminal holder for **cross sections up to 6 mm<sup>2</sup>** (further sizes available on request)
- Long-life **LED illumination** at the microscope
- Energy saving **working lamp** for Cutting-/Grinding unit
- Fitting gas-tight mount for 5 calibration gauges
- Appropriate tool set for the sample preparation
- With comfortable **analysis software X-Scan**
- Compact dimensions
- Software calibration based on traceable standards incl. calibration certificate
- Cross-sectioning of the sample can be carried out **without any disturbance** of the terminal and cable stranding

### Specifications

Type	ML 3600
Voltage supply	100 – 240 VAC 50/60 Hz
Smallest extension (15" monitor)	32x
Largest extension (15" monitor)	120x
Smallest crimp height for a full screen	1.4 mm
Largest crimp height for a full screen	5.5 mm
Measurement resolution $\mu\text{m}$ per pixel	2 $\mu\text{m}$ , 3 $\mu\text{m}$ , 5 $\mu\text{m}$ , 7 $\mu\text{m}$ , 9 $\mu\text{m}$
Optical zoom grades	0.75 – 1.0 – 1.5 – 2.0 – 2.5 – 3.0
Camera resolution	1280 x 1024 Pixel
Camera connection	USB 2.0 Port
Object illumination	Longlife LED ring light for true to color pictures
Fine polishing	Electrochemical
Cross section sizes	0.1mm <sup>2</sup> - 10mm <sup>2</sup> (AWG 28 – AWG 10)
Recommended temperature	22°C +/- 5°
Dimensions (W x D x H)	1200mm x 430mm x 400mm
Weight	27 kg