



**Electronic Manufacturing
Solutions**

EMS Capabilities - Wiring

- EMS offer a full cable assembly service ranging from the supply of cut and stripped wires to complete cable harness assemblies.
- Cutting and stripping performed by our Komax Kappa 310.
- Cutting and stripping capability;
 - Cross sectional area of 0.02 to 6mm² (AWG34-10)
 - Outside diameter up to 10mm
 - Accuracy of $\pm 0.2\%$ of the total length.



Komax Kappa 310

EMS Capabilities - Wiring



Komax Kappa 310

- Integral sensors provide a high level of quality control;
 - Laser Sensor to measure wire diameter
 - Induction Sensor to detect damaged strands
- Every job is programmed and stored independently ensuring effective repeatability and quality control.

EMS Capabilities - Wiring

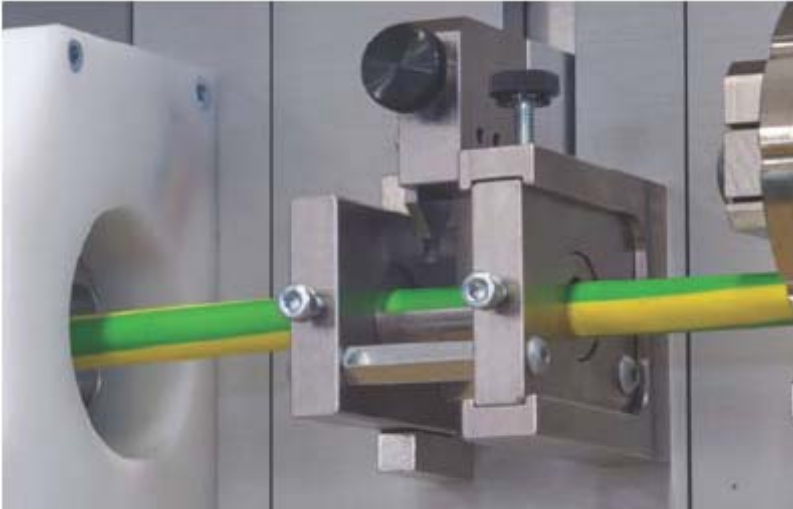
Laser Sensor

- The Laser Sensor automatically detects the conductor diameter and cross section reducing machine setup time and providing optimum setup for every job.
- This sensor continuously monitors the cutting and stripping throughout production ensuring errors are spotted at the earliest possible point avoiding machine wastage.



Komax Kappa 310 – Laser Sensor

EMS Capabilities - Wiring



Komax Kappa 310 – Induction Sensor

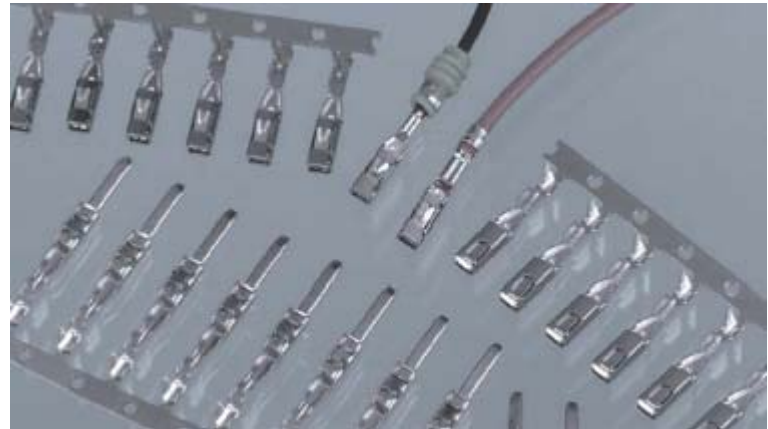
Induction Sensor

- The Induction Sensor induces the wire with a current during the cutting and stripping process.
- If the blades of the Kappa 310 then touch the internal strands the machine will re-calibrate itself to avoid damage to the strands.
- This sensor provides quality assurance and removes the potential for damage to the internal strands.

EMS Capabilities - Crimping

Crimping

- Our crimping service provides the capability to process a large range crimps.
- This flexibility is due to our two in house presses the WDT SSC-2FP Safety Press and the Tyco AMP 3K/40 Press.
- Bulk or reel fed crimps from low to high volume.
- Standard or custom die sets are available.



EMS Capabilities - Crimping



WDT SSC-2FP Safety Press

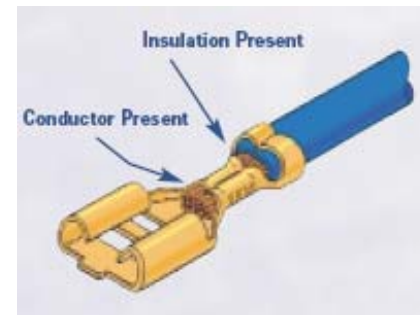


Tyco AMP 3K/40 Press

EMS Capabilities - Crimping

Crimp Quality

- The die sets ensure that the crimp is formed correctly.
- Correct crimp formation is critical to the operational life of the crimp and the intrinsic safety features.
- Only crimps formed with the correct die sets and tools can be certified.



EMS Capabilities – Cable Assembly

Cable Assembly

- Complimented by our cutting, stripping and crimping service EMS are also able to offer a full wire / cable assembly service.
- From prototype designs through to production.
- We also offer an off-shore service suitable for high volume assemblies.

