

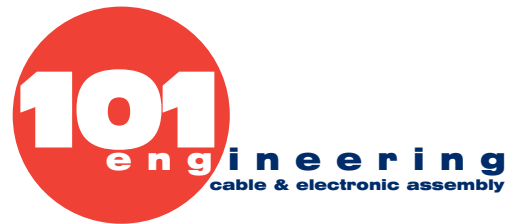
Harnessing

Terminations

Cable Preparation

Wiring

Assembly



101 Engineering

Capabilities

101 Engineering is a sub-contract manufacturer of electro-mechanical assemblies and sub-assemblies for OEM manufacture.

Offering a discreet confidential service we specialise in short-run batch production individually matched to our customer's needs. Deliveries can be made on a daily basis where appropriate, offering considerable advantage to inventory reduction programmes.

Our involvement can range from the simplest cable preparation or termination task through to finished, packaged product, complete with manuals, shipped to end customers.

Talking to us early in your product or process development can pay dividends in efficiencies and potential cost reductions. We can offer advice on methodologies and pre-production samples for evaluation and test.

Excellence in customer service is our goal. Meeting and exceeding our customer's expectations in quality and delivery of product means getting it right first time, every time.

101 Engineering Ltd

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101 Engineering

Harnessing

Cable-tied
Laced
Multicore Cable
Sleeved
Wrapped

Good planning and forethought is required for efficient loom and harness production.

Not only do we offer experience but also where appropriate, pre-production kits to test means, methods and use.

We offer a full range of looming and cable harness services using individual wires or multicore cables, secured with lacing tape, spiral wrapping, sleeving or cable ties.

We can manufacture looms and harnesses as a supply of quality assured sub-assemblies to your production lines, or for incorporation with other processes as part of our system build.

By combining with our cable preparation, cable termination and test facilities, complete ready for installation, wiring systems can be offered to meet your requirements.



Terminations

Crimp
IDC/IDT
Screw
Solder

Cable termination is a skilled process, which requires fully trained operators to achieve consistent high quality output.

We supply a full range of termination types for most cables and offer comprehensive ident solutions to meet your most demanding specifications

Our operators receive on-going training and assesment in-line with their work instructions all designed to ensure output is maintained within set quality parameters.

All terminated multicore cables are routinely tested on our Programable test system for continuity, short circuits and crossed connections.

Our efficient production lines enable us to supply, even short and medium runs, at competitive prices.



Preparation

Multicore Cables
Coaxial Cables
Ribbon Cables
Composite Cables
Armoured Cables
Conduit

The starting point for all cable linked activities is wire and cable preparation.

We de-coil, cut to length, strip outers and inners, tin conductors and sleeve as required.

Our programmable machinery ensures repetitive tasks are carried out to consistent quality and dimensional accuracy.

All types of cables are catered for with minimal set-up times for small and medium quantities.

Our preparation service can be used as a source of prepared material to your own production lines or as a first stage for our other assembly services.



Assembly

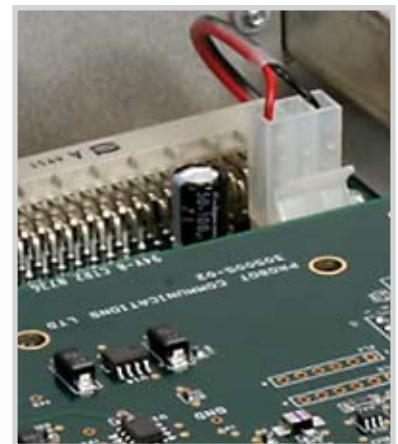
Static-Safe Facility
Hand soldering
Solder-side components
Ancillaries
Low volumes

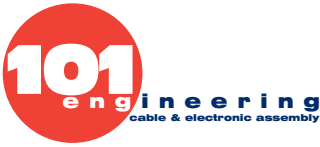
Our 'static-safe' facilities are ideally suited to short and medium run hand soldered assembly.

Also small boards and specialised assemblies, especially those unsuitable for flow soldering.

We also undertake a range of post-solder operations such as wound and solder-side components, heatsinks, links and select on test components.

For larger volume PCB manufacture, we work alongside several specialist companies, who offer a full range of conventional through-hole and surface-mount assembly services





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Equipment

Wire & Cable Termination Tooling List

By Manufacturer:

AMP (Tyco) -	CPC Series 1 & 2 226537-1 Subminiature RF coaxial pin 51565-1 Subminiature RF coaxial socket HDP20 (D Connectors) HE14 Series Mate-N-Lok (Universal) 14-20awg Mate-N-Lok (Universal) 18-24awg Mini Mate-N-Lok (170363/170364 Contacts) 'M' Series (V35) 929990-1 Contacts (DIN72585 Series etc.)
Berg -	See FCI (Framatome Group)
Davico -	DPO Series, Non insulated push-on terminals
FCI (Framatome Group) -	Bergcon Mini-Latch 22-26awg Bergcon Mini-Latch 28-32awg Qikmate
Harwin -	M20 M80
ITT-Cannon -	DL-Series ZIF connectors D*U Stamped and formed D connector contacts D*W Insulation Displacement (discrete wires) Trident (one- & two-part contacts) Sureseal Range
JST -	EH connector (SEH contact) SL connector (SSM-21 pin contact, SSF-21 socket contact) SM connector (SYM pin contact, SHF socket contact) VH connector (SVH contact) ZR connector (discrete wire IDC) XHP Connector (SXH Contact) SH Connector (SSH Contact) VA Connector (SVA Contact) ZHR Connector (SZH Contact) SIN-21T-1.8S Contact
Molex -	1560/1561 Series 1786/1787 Series 1854/1855 Series 2478/2578/2878 Series 0.156" KK) 2759 Series (0.100" KK) 4529 Series 4809 Series (0.100" KK) 5394 Series (0.098" Mini Spox) 5556/5558 Series (Mini-Fit Junior) 6438/6838/7258 Series (0.156" KK 'Trifurcon') 8818 Series (0.156" KK) 50058 Series 50394 Series (Milli-Grid) 90327 Series Picoflex PF-50 80539 Series (35156 Housings) 50217 Series (35156 Housings) 7879 Series (KK High Pressure Contact) 90119 Series (C-Grid) 43030/43031 Series (Microfit 3.0) 7720S (IDT KK Series 0.1")
Panduit -	Mas-Con 0.100" Pitch Mas-Con 0.156" Pitch
Stocko -	RFK Series
Lemo -	EGG.0B.655.ZZM Series EGG.0B.656.ZZM Series EGG.0B.654.ZZM Series
Deutsch -	DT Series
Schaltbau -	GM Series
Souriau -	Trimtrio Series
Edac -	516 Series

Our range of tooling is constantly expanding- if you don't see your exact requirement above please contact us.

Cable Preparation Machinery

6 x Schleuniger US2015 -	Pneumatic Wire and Cable Stripping machine Wire Range 14-32 AWG Up to 20mm Strip Length
1 x Schleuniger US2100 -	Electric Wire and Cable Stripping machine Wire Range 10-32 AWG Up to 25mm Strip Length
2 x Schleuniger MP257 -	Programmable Coaxial Cable Stripping machine Up to 7mm Cable Diameter Up to 25mm Strip Length Up to 9 Stripping Steps in one cycle
1 x Schleuniger CS5400 -	Programmable Coaxial Cable Stripping machine Up to 11mm Cable Diameter Up to 40mm Strip Length Up to 9 Stripping Steps in one cycle
1 x Schleuniger JS8300 -	Cable Jacket Stripping machine Up to 25mm Cable Diameter Up to 1000mm Strip Length
2 x Schleuniger JS8400 -	Automated Cable Jacket Stripping machine Up to 25mm Cable Diameter Up to 200mm Strip Length
1 x Schleuniger CS9050 -	Fully Automated Wire Cut and Stripping machine Up to 6.5mm Cable Diameter
1 x Schleuniger JC3985 -	Heavy Duty Cable Cutting machine Up to 25mm Cable Diameter
1 x Schleuniger OC871 -	Cable/Ribbon/Sleeving cutting machine Up to 8mm Cable Diameter
1 x Schleuniger PP3 -	Automatic Strip and Crimp machine
1 x Auto Reel -	Heavy Duty Cable Coiling System
2 x GLW EC65 -	Electric Crimp Press for Insulated and Un-Insulated Crimps
2 x KMI KN10 -	One Ton Crimp Press
2 x Plato SP-101 -	Solder Pot

Wire & Cable Termination Tooling List

By Type

Bootlace Ferrules -	0.25 - 10 sq.mm. (Insulated and Uninsulated)
BT Telephone connectors -	430A 431A 630A 631A
Copper Tube Terminals - Heavy Duty -	1.5 - 95 sq.mm. Cable Size
D Connectors - Ribbon Cables (IDC) -	9 way Male & Female 15 way Male & Female 25 way Male & Female 37 way Male & Female see below for specific manufacturers' crimp system
Insulated Crimps -	Miniature Yellow (0.2 - 0.5 sq.mm.) Red (0.25 - 1.65 sq.mm.) Blue (1.04 - 2.63 sq.mm.) Yellow (2.63 - 6.64)
RF Connectores (Crimp-On)- for cable types	Cheapernet GT551014 \$RG55B/U RG58C/U RG59 Min RG62 Min RG141A/U RG174A/U RG179B/U RG188A/U RG223/U RG316/U Thin Ethernet UL Type 1478 URM43 URM76 URM95 URM109 URM111 URM116 URM301
WECO (Western Electric) FCC68 connectors:	RJ11 RJ12 RJ45 RJ50

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