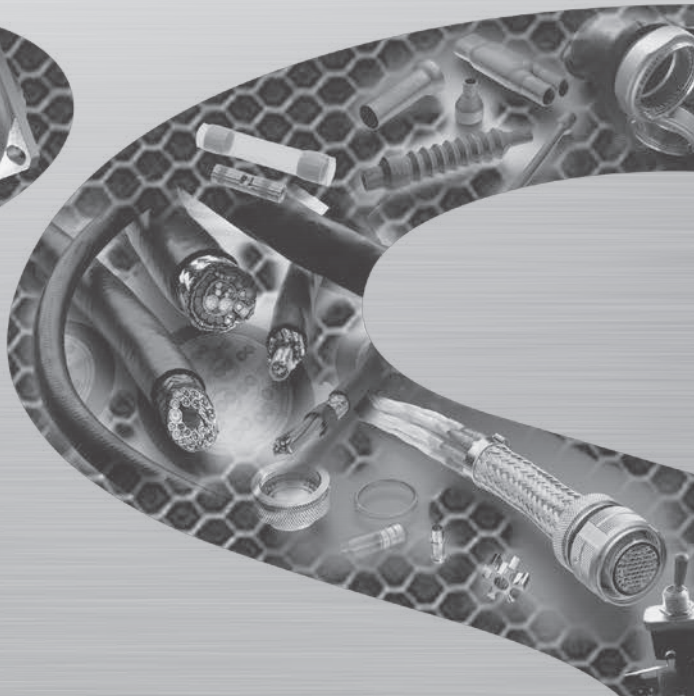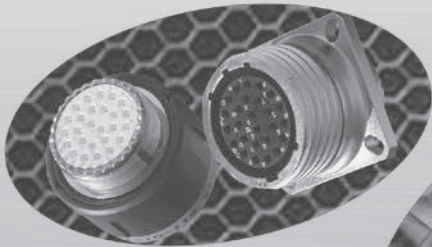# iS Rayfast

Application Tooling

Performance and Reliability
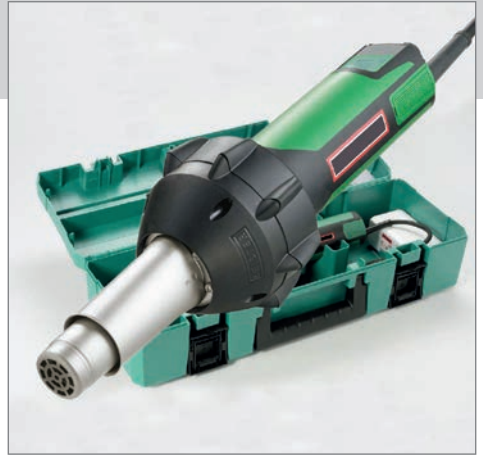
The correct tool for the job

INTRODUCTION

Application tools to ensure
**PERFORMANCE ·
RELIABILITY · INTEGRITY ·
PRECISION ·
PRODUCTIVITY.**

The correct tool for the job

Every day, you count on your application tooling to be reliable and accurate. We go to great lengths to ensure that each of our offered products upholds these standards and remains simple and easy to use.

The range of application equipment is designed and engineered specifically for cutting, stripping, preparation and installation of a wide range of electrical interconnection products. These tools provide optimum performance and control features for maximum performance and production efficiency

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HL2010E & HL1910E
Electronic Thermocouple Control
General Purpose Heat Guns

HL2010E-230V-UK
Heat Gun with LCD Temp Display

The HL2010E heat gun is microprocessor controlled and features an LCD display which enables temperature selection in controlled increments. The heating element design ensures even heat and product longevity. Design benefits from soft grip handle, dual air filters and three stage switch.

Item	Value
Operating Voltage (V)	230
Temperature	49ºC to 621ºC
Output	2000 watts
Air flow (Litres/Min.)	150 to 500
Nozzle Diam. (mm)	33.28
Dimensions (mm)	L 260 x W 90 x H 205
Net Weight (g)	920

HL1910E-230V-UK
Variable Temperature

The HL1910E is a powerful heat gun with variable temperature and electronic thermocouple control for flexible use and maximum reliability. The heating element design enures even heat and product longevity. Design benefits from soft grip handle, dual air filters and three stage switch.

Item	Value
Operating Voltage (V)	230
Temperature	49ºC to 593ºC
Output	2000 watts
Air flow (Litres/Min.)	150 to 500
Nozzle Diam. (mm)	33.2
Dimensions (mm)	L 260 x W 90 x H 205
Net Weight (g)	920

Accessories

Reflectors Part Number	Applications
HL1802E-ADAPT-PR	Adaptor to fit PR series reflectors
HL1802E-070519	Reflector for use on tubing products
HL1802E-074616	Reflector for use on SolderSleeves® products
HL1802E-070618	9mm small to medium air reduction nozzle
HL1802E-070717	14mm medium air reduction nozzle
HL1802E-707816	20mm medium to large air reduction nozzle
HL1802E-BENCH-STD	Bench stand for fixed position environments

For more information on this product and full range of accessories or kits please contact us

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CV1981ST

Heat Gun

The CV1981 heat gun is the entry level unit of our 'Heavy Duty' range of hot air guns, with variable temperature dial. These units are rugged and robust, plus the ability to operate for extended periods. A wide range of reflectors is also available as detailed over the page.

Item	Value
Operating Voltage (V)	230 (120 optional)
Temperature	20ºC to 700ºC
Output	1600 watts
Air flow (Litres/Min.)	230 Max.
Nozzle Diam. (mm)	Suits PR Series Reflectors
Dimensions (mm)	L 340 x Ø 90 (handle Ø 56)
Net Weight (Kg)	1.3

CV1983ST

High power, 2400 or 3060 watts

Similar to the CV1981 but with the added advantage of higher power and a greater air flow, making it particularly suitable for more demanding environments. The nozzle diameter is larger than the CV-1981 and requires adaptor to use the PR series reflectors, please see later in this chapter.

Item	Value
Operating Voltage (V)	(120 optional)
Temperature	40ºC to 650ºC
Output	2400 watts
Air flow (Litres/Min.)	500 Max.
Nozzle Diam. (mm)	Needs adaptor for PR Series
Dimensions (mm)	L 340 x Ø 90 (handle Ø 56)
Net Weight (Kg)	1.5

Part Numbers

Product Code	Applications
CV1981-ST-120V1600W-UK	Heat gun, 120V, 1600W with UK plug
CV1981-ST-230V1600W-UK	Heat gun, 230V, 1600W with UK plug
CV1981-ST-230V1600W-EU	Heat gun, 230V, 1600W with EU plug
CV1983-ST-230V2300W-UK	Heat gun, 230V, 2300W with UK plug
CV1983-ST-230V2300W-EU	Heat gun, 230V, 2300W with EU plug
CV1983-ST-230V3400W-UK	Heat gun, 230V, 3400W with UK plug

For more information and US versions of this product and full range of accessories or kits please contact us

CV1981-ATPID
Electronic Thermocouple Control
Digital Control and LCD Display

The TRIAC AT is an intelligent yet robust hot air tool for welding and shrinking plastic. It is designed for the needs of even the most demanding professional, incorporating an ergonomic design, secure handling and a modern look. Every tool undergoes stringent quality checks prior to leaving the factory.

this high quality hot air tool is equipped for any use. It's universal areas of application are virtually unlimited and will continue to prove its merit in any weather conditions and is just as effective outside as it is indoors - all during continuous operation.

Suitable for work site
- Closed loop controlled temperature
- Open loop controlled air volume
- Intelligent digital operating unit
- Ergonomic handling
- Modern design

Practical storage case included with ample space to accommodate the tool and accessories.

Uses the PR and 107 series of reflectors and adapters, illustrated on the opposite page.

Product Code	Description
CV1981-ATPID-120V1600W-UK	120V with UK plug
CV1981-ATPID-230V1600W-UK	230V with UK plug
CV1981-ATPID-230V1600W-EU	230V with EU plug

Item	Value
Operating Voltage (V)	230
Temperature	40ºC to 700ºC
Output	1600 watts
Air flow (Litres/Min.)	120 to 240
Nozzle Diam. (mm)	33.28
Dimensions (mm)	L 335 x Ø 90 (handle Ø 56)
Net Weight (Kg)	1.0

Product Benefits

Everything easy
Intuitive handling with proven digital operating unit.

Everything in view
Clearly visible information on the large display panel.

Everything automatically
The set temperature reaches its level automatically, voltage fluctuations are compensated.

Everything under control
The temperature measurement probe guarantees a precise temperature.

Everything flexible
The air volume can be adjusted independently, temperature automatically maintained.
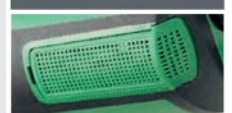
Everything really clean
The air filters on both sides can easily be removed and cleaned.

Everything really cool
Protective tube for greater work safety.

Everything handled perfectly
Soft parts and low weight ensure optimum handling

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PR Series Reflectors

The PR series of accessories will fit the CV1981 heat gun, whilst the CV1983 heat gun will require an adapter part AD1962 to use the PR reflectors*.

Made from stainless steel these reflectors offer the optimum means of uniformly applying heat to heat shrink tubing, devices and moulded parts.

A separate 107 Series of adaptors is available for use with the Triac AT model heat gun. To utilise the PR series of reflectors an adaptor 105.509 is required.

PR Series Reflectors - Fits CV1981 and CV1983*

Part Number	Description
PR-12 reflector	Tubing: 6mm to 25mm
PR-13 reflector	Tubing up to 6mm
PR-13C reflector	Large SolderSleeve products
PR-21 reflector	Tubing up to 25mm
PR-24 reflector	Tubing and moulded parts 25mm to 35mm
PR-24A reflector	Tubing and moulded parts 35mm to 60mm
PR-25 reflector	SolderSleeve products up to 7mm
PR-25D reflector	SolderSleeve products 6mm to 13mm
PR-26 reflector	Small SolderSleeve products
PR-33 reflector	SolderSleeve products 19mm to 25mm
PR-34 reflector	SolderSleeve products 12mm to 20mm
PR-51 reflector	Special narrow nozzle for moulded part transitions 21.5mm x 3.5mm
AD-1962 adapter*	Suits larger barrel CV1983, to facilitate use of the PR series reflectors

Hot Jet S
Electronic Thermocouple Control
Compact & Lightweight Heat Gun

The Hot Jet S is compact, lightweight and portable, ideal for use in confined spaces such as engine compartments and electronic equipment. The powerful Hot Jet S has variable airflow and temperature settings, allowing controlled installation of small diameter tubing, moulded parts and solder sleeves.

Features & Benefits
- Built in potentiometer
- Stepless, electronically controlled temperature
- Stepless, electronically controlled air flow
- Low noise 59dB
- Flexible, integrated tool stand

Product Code	Description
HOT-JET-S-120	120V / 460W, with EU plug
HOT-JET-S-230	230V / 460W, without plug

Please state wether EU or UK or US plug required

Item	Value
Operating Voltage (V)	230V or 120V
Temperature	20ºC to 600ºC
Output	460 watts
Air flow (Litres/Min.)	20 to 80
Nozzle Diam. (mm)	33.28
Dimensions (mm)	L 235 x Ø 70 (handle Ø 40)
Net Weight (Kg)	0.6 (with 3m cord)

107 Series reflectors - Fits Hot Jet S

Part Number	Description
107.324	12 x 10 mm sieve reflector, push fit on 5mm tubular nozzle
107.310	35 x 20 mm sieve reflector, push fit
107.311	50 x 35 mm sieve reflector, push fit
107.312	25 x 35 mm spoon reflector
107.148	Ø 3 mm x 1.5 mm soldering nozzle, oval
107.144	Ø 5 mm tubular nozzle

107.324   107.310   107.311   107.312   107.148   107.144

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AD-1377 Crimp Tool
Fits all the MiniSeal crimp barrels. A calibration verification gauge, AD-1386, is also available

AD-1522 Crimp Tool
For DuraSeal crimp and PolyCrimp products. It has a pre-set crimp depth that provides the optimum combination of tensile strength and insulation integrity in the finished splice.

AD-1381 Crimp Tool
Used in conjunction with Cold Applied splices.

Hand Operated Crimp Tools

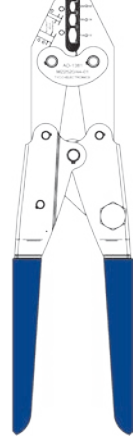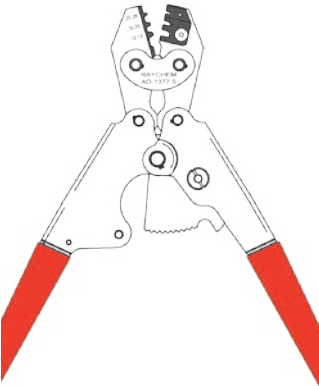| Part Number	Description
AD-1377-5	Used for MiniSeal crimp barrels
AD-1522-1	DuraSeal and PolyCrimp products
AD-1381-1	Cold Applied Splice range

AD-1377-5

AD-1522-1

AD-1381-1

Custom Stripmaster®
Wire Stripping Tool
Hand Operated

Custom Stripmaster®

Offers fast accurate wire stripping with its one step, squeeze action stripping and unique precision blade design. This lightweight stripper is made from sturdy die-cast zinc, is designed for maximum mobility and high productivity in all types stripping applications.

Can be customised with choice of gripper pads and blade sets to match your particular stripping requirements.

- Die-type blades allow precision stripping
- Counterbores keep wire alignment while tool actuates, ensuring conductor is not damaged.

Custom Stripmaster® Lite

At 3/4 of the size of the Custom Stripmaster®, its compact size more comfortably fits the human hand and offers a shorter stroke, which increases wire stripping productivity.

- Up to 50% lighter than full size versions
- Requiring 1/3 less hand pressure

Series	Features
45-170 Series	without short stop latch and wire stop
45-169 thru 45-188	Includes grit-type pads (standard)
45-369 thru 45-388	Includes file-type pads
45-469 thru 45-488	Includes parallel-type pads
45-631 thru 45-641	Includes grit-type pads (standard)

Custom Stripmaster®

Tool Part Number	Blade Part Number	Description
Teflon 600V wire and cable		
45-176	L-5559	10-14 AWG
45-177	L-5560	12-26 AWG
45-178	L-5561	26-30 AWG
PVC type wire and cable		
45-170	L-5210	10-14 AWG
45-171	L-5211	12-26 AWG
45-172	L-5436	26-30 AWG
Wrapped wire and cable		
45-169	L-9300	24-30 AWG

Custom Stripmaster® Lite

Tool Part Number	Blade Part Number	Description
Teflon 600V wire and cable		
45-638	LB-918	10-14 AWG
45-639	LB-919	12-26 AWG
45-640	LB-920	26-30 AWG
PVC type wire and cable		
45-632	LB-912	10-14 AWG
45-633	LB-913	12-26 AWG
45-634	LB-914	26-30 AWG
Wrapped wire and cable		
45-169	LB-911	24-30 AWG

Specialist Wire Application Cross Reference Chart

Wire Type.	Gauge Size	Tool Part No.	Blade Part No.	Frame (Handle Colour)	Gripper No.
600V Primary wire					
55A011X; M22759/32/33; M22759/44/45/46	26-30 AWG	45-178	L-5561	L-5617 (Black Handle)	LB198
	16-26 AWG	45-1987	45-1987-1	L-5617 (Black Handle)	LB198
	10-14 AWG	45-1611	45-1611-1	L-5616 (Red Handle)	LB197
44A011X; M81044/12/13	26-30 AWG	45-178	L-5561	L-5617 (Black Handle)	LB198
	16-26 AWG	45-1987	45-1987-1	L-5617 (Black Handle)	LB198
	10-14 AWG	45-1611	45-1611-1	L-5616 (Red Handle)	LB197
600V Airframe wire					
55A081X; M22759/34/35; M22759/41/42/43	26-30 AWG	45-178	L-5561	L-5617 (Black Handle)	LB198
	16-26 AWG	45-1987	45-1987-1	L-5617 (Black Handle)	LB198
	10-14 AWG	45-1611	45-1611-1	L-5616 (Red Handle)	LB198
44A081X; M81044/9/10	16-26 AWG	45-174	L-5563	L-5617 (Black Handle)	LB198
	10-14 AWG	45-173	L-5562	L-5616 (Red Handle)	LB197
Defence Standard 600V Primary wire					
55D021X	16-24 AWG	45-1773	L-1773-1	L-5617 (Black Handle)	LB198
55D011X	12-14 AWG	45-1774	L-1774-1	L-5616 Red Handle)	LB197
1000V Primary wire					
44A021X	26-30 AWG	45-178	L-5561	L-5617 (Black Handle)	LB198
	16-26 AWG	45-177	L-5560	L-5617 (Black Handle)	LB198
	10-14 AWG	45-176	L-5559	L-5616 (Red Handle)	LB197
2500V Primary wire					
44A031X	16-26 AWG	45-171	L-5211	L-5617 (Black Handle)	LB198
	10-14 AWG	45-170	L-5210	L-5616 (Red Handle)	LB197
Dual wall 600V and 750V Equipment wire					
44M9976	16-26 AWG	45-1927	45-1927-1	L-5617 (Black Handle)	LB198
	12-14 AWG	45-1928	45-1928-1	L-5616 (Red Handle)	LB197
99M0111	16-26 AWG	45-1927	45-1927-1	L-5617 (Black Handle)	LB198
	12-14 AWG	45-1928	45-1928-1	L-5616 (Red Handle)	LB197
100G0111	16-26 AWG	45-1927	45-1927-1	L-5617 (Black Handle)	LB198
	12-14 AWG	45-1928	45-1928-1	L-5616 (Red Handle)	LB197
FlexLite Commercial Wire					
FLDWC031X	26-30 AWG	-	-	L-5617 (Black Handle)	LB198
	16-26 AWG	45-1987	45-1987-1	L-5617 (Black Handle)	LB198
	10-14 AWG	45-1611	45-1611-1	L-5616 (Red Handle)	LB197
FLHTC031X	16-26 AWG	45-1987	45-1987-1	L-5617 (Black Handle)	LB198
	10-14 AWG	45-1611	45-1611-1	L-5616 (Red Handle)	LB197
FLTWC031X	16-26 AWG	45-1987	45-1987-1	L-5617 (Black Handle)	LB198
	10-14 AWG	-	-	L-5616 (Red Handle)	LB197

Red handles are used on frames with the thin stationary gripper pad for larger wires (10-14 AWG).
Black handles are used on frames with the thick stationary gripper pad for smaller wire (16-30 AWG).

Ergo Elite Stripmaster®
Wire Stripping Tool
Hand Operated

The Ergo-Elite Stripmaster® wire stripper offers the latest light-weight ergonomically engineered wire stripper for the aerospace industry. The tilted stripping head in this sleek design provides better leverage and clear view for wire positioning. The advanced jaw position ensures a quality strip, eliminates potential scraping of the inner conductor, while leaving squared shoulders on a wide range of wire gauges.

- Ergonomically engineered for superior comfort, balance and control
- Tool constructed of rigid polyurethane re-inforced with carbon fibre,providing excellent strength at 40% the weight of metal hand tools
- Un-matched MIL-Spec precision blades with a patented revolutionary design
- One-step stripping action, grips, penetrates and removes wire insulation with unmatched precision in one effortless squeeze.
- Smaller handle span for better overall balance and control.
- Comfort grip handles designed to give better leverage and reduce pressure point distress.
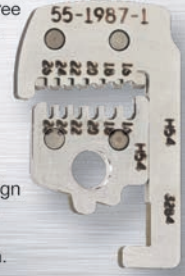

Ergo Elite Stripmaster®

Tool Part No.	Blade Part No.	Wire Type		Gauge Size
55-1987	55-1987-1	44A011x	M81044/12 and 13	16-24 AWG Range
		55A011x	M22759/32-35 inclusive	
		55A081x	M22759/41-46 inclusive	
55-1973	55-1973-1	55D012x	-	

Ergo-Elite Accessories

Cat No.	Features
LB-4617	Tool only, less blades
LB-4618	Tool with grit pad, less blades
LB-4619	Tool with parallel pad, less blades
LB-4620	Gripper set, Grit
LB-4621	Gripper set, Parallel
LB-1904	Wire stop
IA-5170	Blade cover, Purple
IA-5171	Blade cover, Red
IA-5172	Blade cover, Green
IA-5173	Blade cover, Blue

Patented two-piece constructed blades meet Military Stripping Specifications. An outer counter-bore hole is sized to the insulation outside diameter, while the inner cutting hole cuts through the insulation assuring nick-free wire stripping time after time.

- Squared shoulders at insulation cut.
- Aggressive blade design for minimal tool stress and grip force.
- Advanced cutting hole design with blade holes tangent to stationary gripper surface.
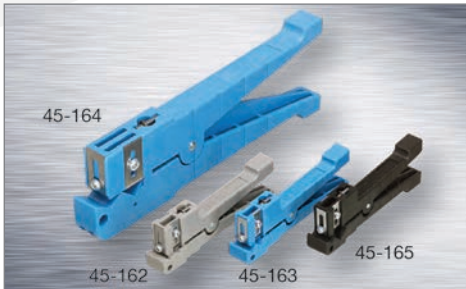- Stainless steel construction.

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Ringer® Shielded Cable Strippers

Precision stripping for non-round shielded cable and other outer cable jackets, including Teflon® insulations.

- Spring-loaded cutting head holds cable with consistently accurate tension, removing any need for adjustment.
- V-notch jaw automatically positions and holds cable, increasing cutting accuracy.
- Wire guide roller maintains stripping head alignment, producing a square, clean cut.
- Not recommended for layered wrapped cable constructions.

Coaxial Cable Strippers

Lightweight and compact, cost effective stripper that is simple to operate.

- Adjustable blades can be set for any depth to help ensure nick-free strips.
- Use with multi-conductor cable, tightly wrapped stranded cables, CATV cable, CB antenna cable, SO, SJ, SJT and other flexible power cords.

Ringer® Shielded Cable Strippers

Description	Colour	Blade Part No.	Tool Part No.
5 Mil insulation, includes blade - Up to 0.127mm	Orange	K-6492	45-401
8-10 Mil insulation, includes blade - 0.2 to 0.25mm	Yellow	K-6493	45-402
Cable diameter, up to 3.2mm	Blue	Sold separately	45-400
Cable diameter, from 3.0 to 5.6mm	Red	Sold separately	45-403
Cable diameter, Up to 7.6mm	Green	Sold separately	45-404

A wide range of blades and cutting depths are available, please contact us for more details.

45-160 Series - Coaxial Cable Strippers

Description	Typical Cable	Colour	Blade Set No.	Slitting Blade	Tool No.
Cable diameter, up to 3.2mm	RG-174, RG-187	Grey	L-9225	L-9212	45-162
Cable diameter, from 3.2 to 5.6mm	RG-58, CB	Blue	L-9225	L-9212	45-163
Cable diameter, from 6.4 to 14.3mm	RG-8	Blue	L-9226	L-9214	45-164
Cable diameter, from 4.8 to 8.0mm	RG-59, UTP	Black	L-9225	L-9212	45-165

A set of blades consists of three straight blades and one round slitting blade. For additional details on product and spares please contact us.

T®-Cutter
Wire Cutter Tool
Hand Operated

T®-Cutter Wire Cutters
- Sheer-type blades permit square, clean cuts.
- Corrosion resistant, black oxide finish
- Tough steel construction and ground cutting surfaces assure long service life.
- Premium T-Cutter wire cutters offer cushion grip handles and plier nose

T®-Cutter Lite Wire Cutters
- Knife-type blades provides a shear-type cut
- Lightweight compact design
- Cushioned ESD Grip
- Perfect for copper and aluminium wire

T®-Cutters - Wire and cable

Tool Part No.	Wire range	
45-123	Up to13mm Ø fine-stranded cable and 10 AWG solid wire (2.6mm Ø)	T-Cutter Standard
45-260	Up to13mm Ø fine-stranded cable and 10 AWG solid wire (2.6mm Ø)	T-Cutter Lite

Selecting the proper tool for your wire and cable ensures the quality and consistency desired in a production environment. There are also ergonomic advantages. Using the proper tool and blade produces a clean cut through the insulation allowing minimal hand force to actuate the tool and break away the insulation.

T-Cutter Tool   **Wrong Tool**

T®-Cutter Wire Cutters
- Sheer-type blades permit square, clean cuts with no ragged strands.
- Corrosion resistant, black oxide finish
- Tough steel construction and ground cutting surfaces assure long service life.
- Premium T-Cutter wire cutters offer cushion grip handles and plier nose

MiniLite-Strip®- Optical Fibre Stripper

Tool Part No.	Wire range
45-352	Small V-notch to remove buffer and coating material from 125u fibre. Large stripping V-notch to strip outer jacket.

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IS Rayfast

Specialist Distributor of High Performance Electrical Interconnect & Electro-Mechanical Components and Services

Working closely with suppliers and manufacturers worldwide we offer a comprehensive range of high performance components and associated products for the Aerospace, Defence, Energy, Industrial, Medical and Motorsport markets. Our experienced team includes specialists by sector and by product, to provide leading customer service. With immediate access to in excess of 8,000 product lines from an extensive "off the shelf" stock profile for next day delivery as standard, along with flexible MOQ's and pack sizes.

We are fully committed to complying with the latest quality approvals for the customers and markets we serve, including ISO9001:2008 and AS9120:2005.

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