

Cable Preparation Tool – T02 Specification



Product Description

All our tools are designed and manufactured in the UK to very high standards and tested to provide a precise and long-lasting service. Tools using our rotary blades come with a lifetime guarantee on blades. In addition, we offer a handle replacement price promise which covers even accidental damage should the handle be broken.

The OPT Services Cable Preparation Tool (T02) is a precision instrument employing a **pair** of modular Cassettes that when positioned on the tool, clamp over a cable to safely and accurately slit the sheath exposing the individual elements inside. The range of cable diameters supported is currently from 5mm to 8.1mm depending on chosen Cassette.

Each Cassette contains a single rotatory blade which is fixed to the handle mechanism. As a **pair** the blades are diametrically opposite each other to create two longitudinal cuts. The blades should ideally be aligned with the yellow stripe(s) on the outside of the cable to prevent the blades coming in contact with any internal strength members. The Cassettes are colour coded for easy identification.

The unit is precision moulded and hand assembled in the UK.



Design Features

- Compact and ergonomic design
- High quality construction and finishing
 - Precisely calibrated blade guarantees no damage to the internal cable elements
 - Designed to last over 500 cuts – no adjustments needed throughout life of tool
 - Moulded in hard wearing red glass filled Nylon
 - Anodised Aluminium & Stainless Steel internal components
 - **Lifetime guarantee*** on rotary cutting blades
 - Return and replacement promise available for handles
 - Colour coded user interchangeable Cassette pairs for different cable types
 - Compatible with cable diameters from 5 to 8.1mm, depending on chosen cassettes
 - Wrist strap for safe working at height
 - User instructions supplied with each stripper
 - Manufactured and hand assembled in the UK



Application Notes

A non-adjustable profiled roller is located either side of the rotary cutting blade to ensure the internal cable elements are not damaged during the stripping operation.

The handle locking mechanism ensures the stripper remains closed during the sheath stripping operation.

OPT provides a grey Cassette that slits the sheath on a 36 fibre Ultra-Light Weight (ULW) Overhead Cable. This supports a 7mm diameter cable with a 2mm sheath wall thickness. There is also a black Cassette to support a 7mm diameter with a 1.5mm sheath wall thickness.

The red OPT Cassette that slits the sheath on a 4/12 fibre Overhead Drop cable supports a 6mm diameter with a 2mm sheath wall thickness.

The purple Cassette for the 8 fibre mini flat drop cable is used on a 8.1 x 4.5mm flat cable sheath.

For the 12 fibre Flat Drop Cable (Self Rodding), the orange COF250 OPT Cassette makes two longitudinal parallel slits in the sheath on one side of the Drop cable. One Cassette contains two rotatory blades which cut through the outer sheath to enable a portion of the sheath to be 'peeled' away exposing the cable element. This operation can be repeated, if necessary, on the other portion of the cable to separate the strength members for anchoring purposes in fibre nodes.

The OPT Blown Fibre Drop tube (BFD) & Copper Hybrid Cable Web Separating Tool (with blue Cassette) splits the web joining the 6 x 2.7mm BFD and the 2 x 0.4mm copper element (containing a twisted pair) enabling the individual components to be terminated at both distribution pole and the customer's premises

The OPT Mini cable Sheath Stripper will longitudinally slit the cable sheath on opposite sides to expose the individual multi-fibre elements. The stripper can have either a single or a pair of Cassettes to cater for different mini cable diameters. The Cassettes are coloured green or yellow (COF205).

The Cassette Carrier is used to install an alternative Cassette pair. This ensures correct alignment and ease of fitting. The carrier also ensures the blades are not exposed when fitted or removed. Cassette replacement instructions are embedded into the carrier itself.

Components & Part Numbers

With the exception of the option to purchase the Handle Mechanism alone (OPT-T0141), all our T02 tools are supplied with a pair of cassettes already installed. The outside cable diameter is listed in the descriptions below:

Complete Tool sets		
Part Number	Cassette Label Colour	Description
OPT-T0141	N/A	Handle Mechanism – no cassettes included
OPT-T0158	Grey	36 / 48 fibre (Ø7mm) Ultra Light Weight Overhead drop Tool
OPT-T0159	Red	4 & 12 fibre (Ø6mm) Ultra Light Weight Overhead drop Tool
OPT-T0160	Red / Grey	4 & 12 fibre (Ø6mm) & 36 fibre (Ø7mm) Double Sided Tool
OPT-T0162	Blue	Blown fibre Drop-tube (Ø6mm) & Copper Hybrid (2mm) Web Separator
OPT-T0166	Black	36 fibre (Ø7mm) Complete Tool
OPT-T0168	Yellow/Green	COF205 Sheath Stripper Double Sided Tool
OPT-T0183	Orange	COF 250 (Ø6.7mm x 3.2mm) 12 fibre Self rodding Mini Flat Drop Cable Tool
OPT-T0185	Yellow	COF205 (Ø7.2mm) Cable Sheath Stripper Tool
OPT-T0186	Green	COF205 (Ø6.5mm) Cable Sheath Stripper Tool
OPT-T0266	Purple	8 fibre drop (Ø8.1 x 4.5mm) cable Stripper Complete Tool
OPT-T0285	White	12 fibre (Ø5mm) Ultra light weight cable stripper Tool



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The following replacement / additional Cassettes are available from OPT Services. All are supplied in pairs within a Cassette Carrier. Any Cassette can be fitted to any previously purchased T02 tool. A **matching pair** of Cassettes must be fitted for correct operation of the tool. Cassettes must be fitted in accordance with the OPT instructions embedded on the Cassette Carrier:

<i>Replacement Cassettes</i>		
<i>Part Number</i>	<i>Cassette Label Colour</i>	<i>Description</i>
OPT-T0135	Blue	Ø6mm - BFD – Copper Hybrid Cable Web Separating - Cassette Assembly
OPT-T0136	Black	Ø7mm - 36 fibre Sheath Stripper - Cassette Assembly
OPT-T0137	Grey	Ø7mm – 36 / 48 fibre Sheath Stripper - Cassette Assembly
OPT-T0138	Red	Ø6mm - 4 & 12 fibre Sheath Stripper - Cassette Assembly
OPT-T0139	Yellow	Ø7.2mm - COF 205 Sheath Stripper - Cassette Assembly
OPT-T0140	Green	Ø6.5mm - COF 205 Sheath Stripper - Cassette Assembly
OPT-T0184	Orange	Ø6.7mm x 3.2mm – COF250 12 fibre Flat Drop cable Stripper Cassette Assembly
OPT-T0267	Purple	Ø8.1mm x 4.5 mm 8 fibre Flat Drop Sheath Stripper Cassette Assembly
OPT-T0294	White	Ø5mm - 12 fibre Ultra light weight cable stripper Cassette Assembly

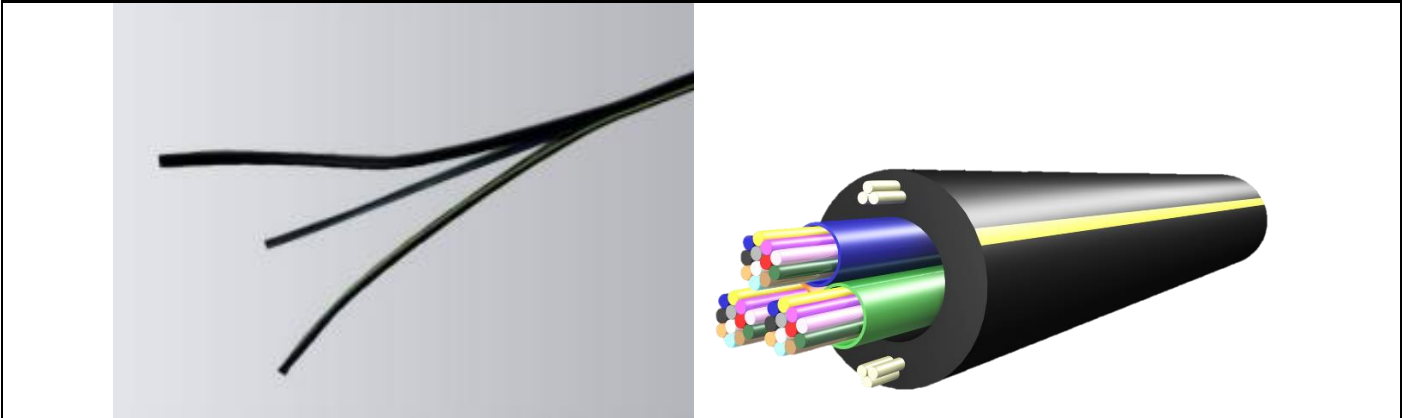
Note: These cassettes will also fit the T03 Light Weight Cable Preparation tool.



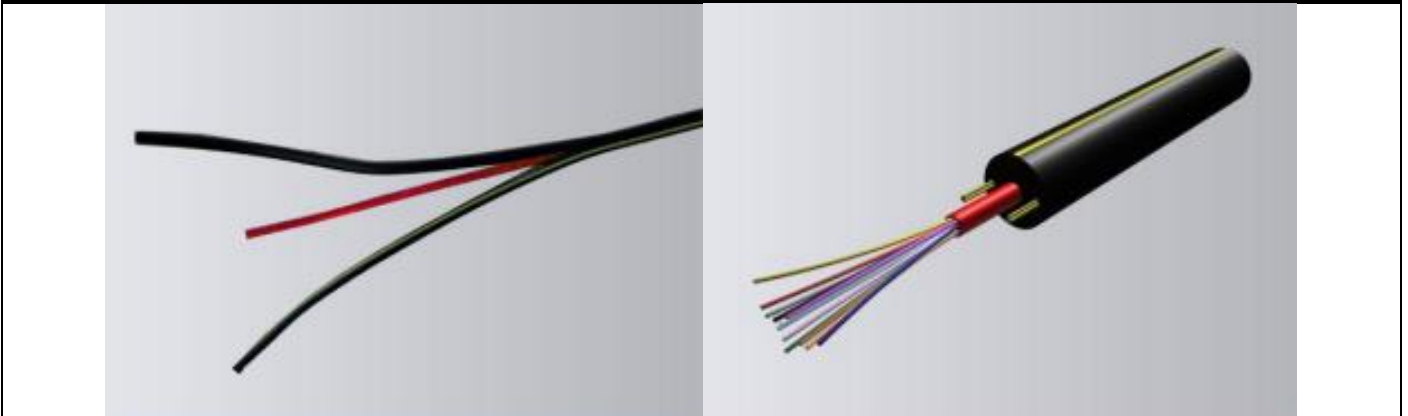
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Cable types supported by T02 Cable preparation tool

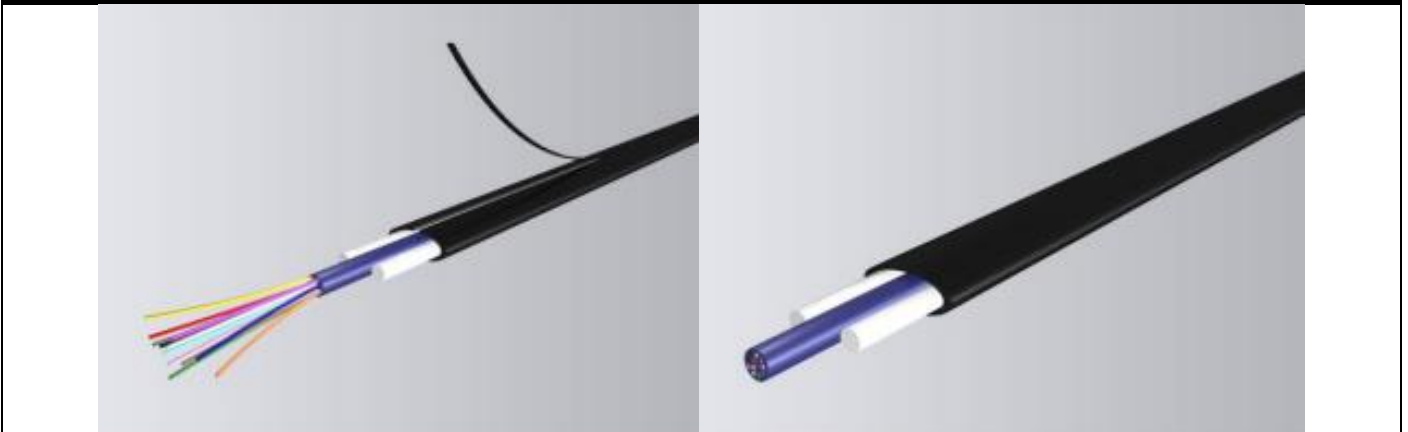
36 fibre Ultra-light weight overhead cable



4/12 Fibre overhead cable



12 Fibre Flat Drop cable (self rodding)



Blown Fibre Drop – Copper Hybrid Cable Web Separation



Mini Cable Stripper

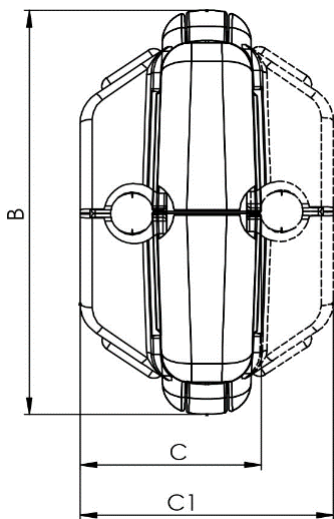
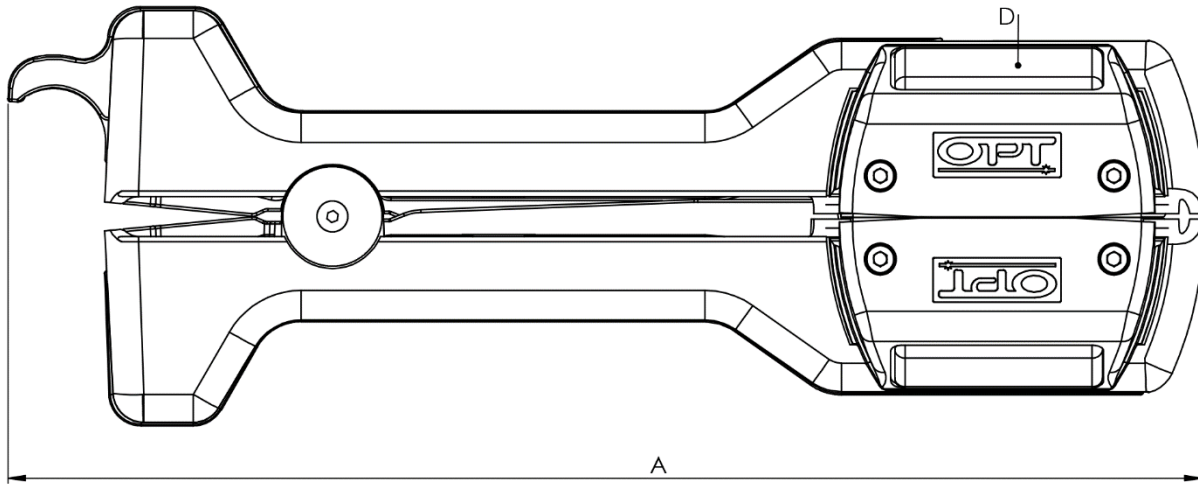


Technical Details

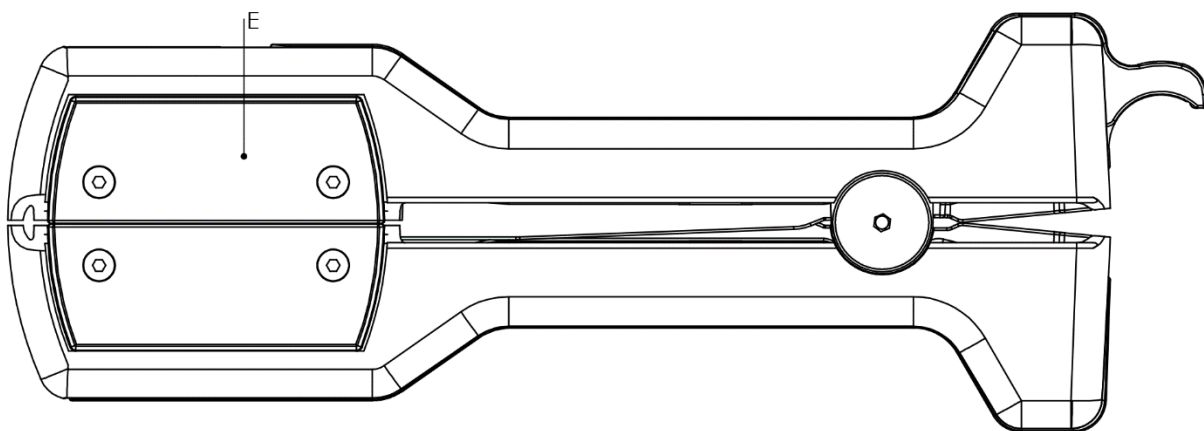
Characteristic	
T02 Tool Weight (inc. cassette pair)	350g
Cassette & Carrier Weight	120g
Double sided tool Weight	460g
Environment	Indoor or Outdoor
Temperature Operating range	-25 to +75 °C
Protection Rating	N/A

* Lifetime guarantee covers blades only. We will replace and return them free of charge. Please see our [lifetime guarantee policy for full T&C](#).

OPT Services offer a T02 Tool handle replacement price promise which covers even accidental damage should the handle be broken.

Dimensions
T02 Dimensions


Letter	Description	Dimension
A	Footprint Length	230mm
B	Footprint Height	80.5mm
C	Footprint Width (with cassette)	36mm
C1	Footprint Width (with 2 x cassettes)	50.5mm
D	Cassette Label position	N/A
E	Option for double sided tool (Dummy cover shown in place)	N/A



Bill of Materials

Component	Colour	Material
Outer Handle	Red	PA66 30GF
Grip Cover	Black	PA66 30GF
Lever Cover	Black	PA66 30GF
Cassette Cover	Red	PA66 30GF
Dummy Cover	Red	PA66 30GF
Handle Cover	Black	PA66 30GF
Cassette Body	Black (Anodised)	Aluminium Alloy 6082 Condition T6 or T651* ¹
Guide Roller / End Roller Wheel	Gold	Brass (Grade CW614N – CZ121)
Cassette Label	Various	Vinyl / Domed Meniscus top
Cassette Carrier	Yellow	Polypropylene
Cutting Blade Wheel	Silver	M2 HS Steel 60-62RC (20mm)
Dowl Pin	Silver	Stainless Steel (6.0 x 14mm)
Step Shaft	Silver	Stainless Steel 303
Actuator Pin	Silver	Stainless Steel
Cassette Cover Fixing Screws	Silver	Stainless Steel (M3 x 10mm SKT CSK)
Cassette Fixing Screws	Silver	Stainless Steel (M3 x 16mm SKT CAP)
Bearings	Silver	Steel (10 x 6 x 3mm mini bearing)
Bearing Button Screw	Black	Steel (M4 Button SKT A2 Screw)
Cassette Carrier Wing Screws	White	Nylon
Cassette Support Bar	Black (Anodised)	Aluminium Alloy 6082 Condition T6 or T651* ¹
Location Pin	Silver	Stainless Steel 303
Handle Lever	Black (Anodised)	Aluminium Alloy 7075* ¹
Female Hinge	Silver	Stainless Steel 303
Male Hinge	Silver	Stainless Steel 303
Hinge Plate	Silver	Stainless Steel 303
Cassette Support bar Bearing	Silver	Stainless Steel 303
Cassette Support bar Male & Female Bearing	Silver	Stainless Steel 303
Cassette Support Plate	Black (Anodised)	Aluminium Alloy 6082 Condition T6 or T651* ¹
Handle Actuating Pin	Silver	Stainless Steel 303
Actuator Lever	Silver	Stainless Steel 303
Blade Shaft	Silver	Stainless Steel 303
CSK Washer	Silver	Stainless Steel 303 (19 x M3)
Strap	Black	1.2mm Polyester + ABS fittings

*¹ Aluminium tested to BS EN 6892-1 B10. The hard Anodising finish is ROHS compliant

All External surfaces of ABS moulded components have the commercial polish, light spark [30 VDI](#) finish applied. This is to reduce production marks and increase visual appeal and user grip.


Packaging & Labelling

All OPT Services products are dispatched in recyclable materials and clearly labelled with our name, product code and description where applicable. At the time of issue, installation guides are included as part of the tool set. A future development will be the use of a QR-Code on the label or tool to access the on-line instructions, meaning they are readily available at all times.

OPT Services are accredited for Sustainable Packaging and documentation





<i>Tool Assembly Packaging H x W x D</i>	<i>Dimension</i>
Height	255mm
Width	95mm
Depth	42mm
Packaged Weight	360g




Cassette carrier includes embedded fitted instructions.

<i>Replacement Cassette Packaging H x W x D</i>	<i>Dimension</i>
Height	97mm
Width	85mm
Depth	50mm
Packaged Weight	130g

Appendix 1 – Abbreviations

Abbreviation	Explanation
ASA	Acrylonitrile Styrene Acrylate – weather resistant thermoplastic
ABS	Acrylonitrile Butadiene Styrene - heat-resistant thermoplastic
BFD	Blown Fibre Drop – type of tubing used for blown fibre installations
CSK	Countersunk – screw type
G625D	Specification for 10.1um rigid optical fibre with resistance to bending
PA66	Polyamide 66 = Nylon 6/6
PA66 30GF	30 % glass fibre reinforced PA 66
PVC	Polyvinyl Chloride - synthetic polymer of plastic
QR	Quick Response or two dimensional barcode
RAL	RAL is a colour management system used in Europe
SKT	Socket - screw type
ULW	Ultra-Light Weight – type of overhead cable
VDI	Verein Deutscher Ingenieure – scale of surface finishes

OPT Services are product specialists for fibre networks



R&D Concept to Completion

- Over 130 years of Experience
- Inhouse Prototyping
- CNC & Injection Moulding
- 3D Print Lab
- 70+ Established Products

Services

- Cable Install & Assessment Site
- Training Studio Facilities
- Graphic Design
- Assembly & Rework
- Cable Winding

Logistics

- Storage & Delivery
- 2800m² of floor space
- 1700+ Pallet Spaces
- PROSKU Management System
- Fleet of Logistics Options

Call us with any queries: 01473 612188

www.optservices.co.uk



End of Specification