

Developing tomorrow's networks, today

THE TELENCO GROUP A global offer for telecoms networks

Telenco "develops the networks of tomorrow, today", by designing, manufacturing, and marketing solutions standard and tailor-made for FTTH, FTTA networks, Datacentre and LAN.

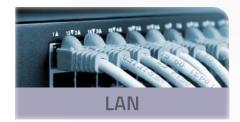
Driven by the ambition to become a key player in the industry, Telenco has enriched its offer over the years and offers a vast choice of equipment for the installation and maintenance of networks, as well as certified training for qualified teams!

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At the heart of a network of experts in telecommunications













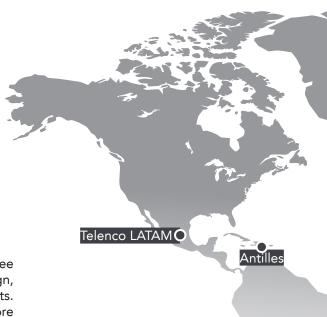
FRANCE Curopacable Try life without us

SYC/IBEL

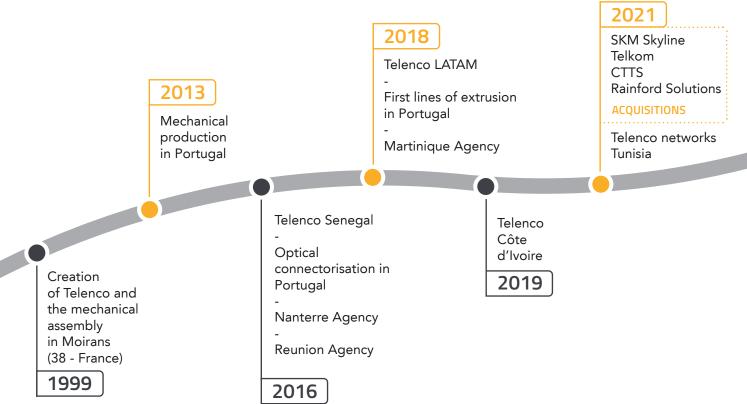
The Group's history

Telenco is growing at the pace of constant customer needs and market evolution.

With production and sales subsidiaries located in three continents, Telenco has an integrated value chain with the design, production, assembly, control and distribution of its products. The Group was thus able to convince and retain customers in more than 65 countries.



ORGANIC AND EXTERNAL GROWTH





Qualification

Manufacturing



TELENCO

A specialist supplier of telecommunications equipment for professionals.

Telenco is a group of companies specializing in the design, manufacture and marketing in France and abroad of long-term solutions for telecoms and connectivity infrastructures. Since 1999, the company has built its business on offering innovative solutions that meet the specific needs of each market. Telenco also supports its customers by supplying high-quality hardware and equipment tailored to their needs. The attractiveness and diversification of our offering is made possible by partnerships with our customers and suppliers, all recognized in their fields of expertise.

Innovate

Take inspiration from our customers and their experiences to develop useful solutions.

Accompany you

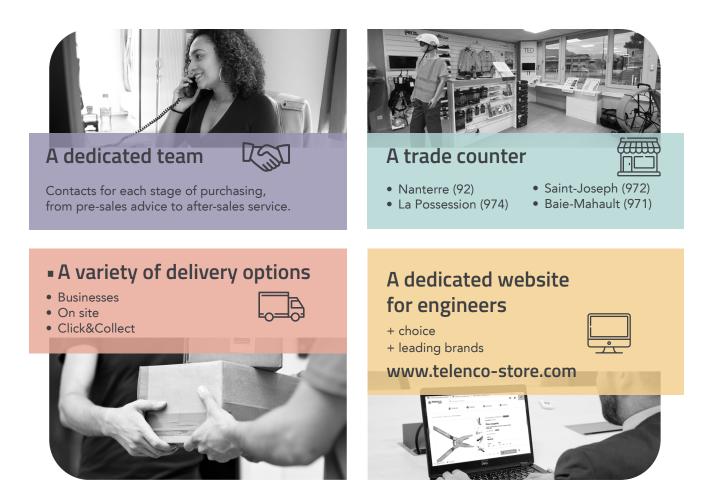
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Advise, deliver the right product at the right time and at a good place.

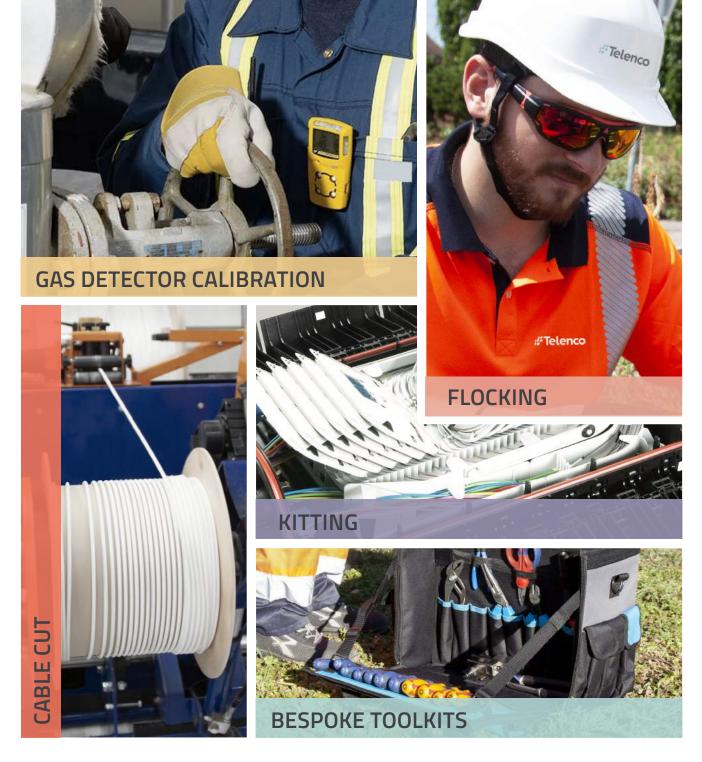
Happy to help

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Listening to all customers' needs.







SERVICES Personalised on demand

Telenco meets the most specific needs by offering simple, efficient, and tailor-made services.

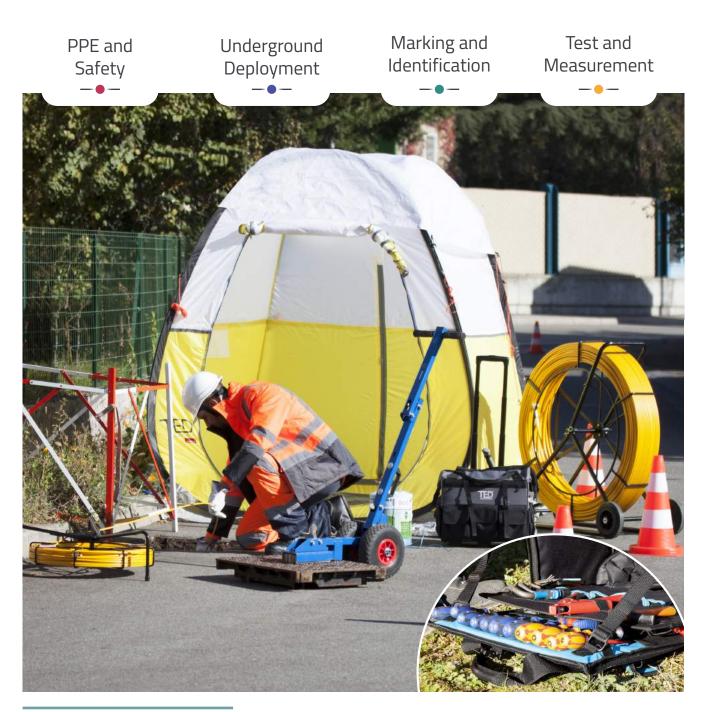
Our team works on a long-term basis to improve our services and support. All the services offered by Telenco are customisable according to the needs of customers, with the aim of making their daily lives on working within the telecommunications industry easier.

TED®

Technical Efficient Durable

The TED[®] brand is the result of Telenco's commitment to improve engineer's working conditions.

By offering solutions with an unprecedented quality/price ratio on the telecommunications market, we equip engineers with equipment adapted to their needs!





CONCEPTION & DESIGN 100% by Telenco

The technical and business knowledge of our product managers and the telecom expertise of our design office makes it possible to develop products that fulfil the field issues.



CO-DEVELOPPEMENT with specialist manufacturers

Industrial know-how combined with the market expertise of our product managers makes it possible to create new products adapted for engineers.

Discover TED[®] the brand dedicated to technicians.

Innovative solutions to support engineers

Launched in 2014, TED[®] is a brand developed by Telenco with dedicated equipment for telecom technicians. It provides daily support technical teams during implementation and maintenance operations of telecommunications networks (FTTx/LAN/DATACENTER).





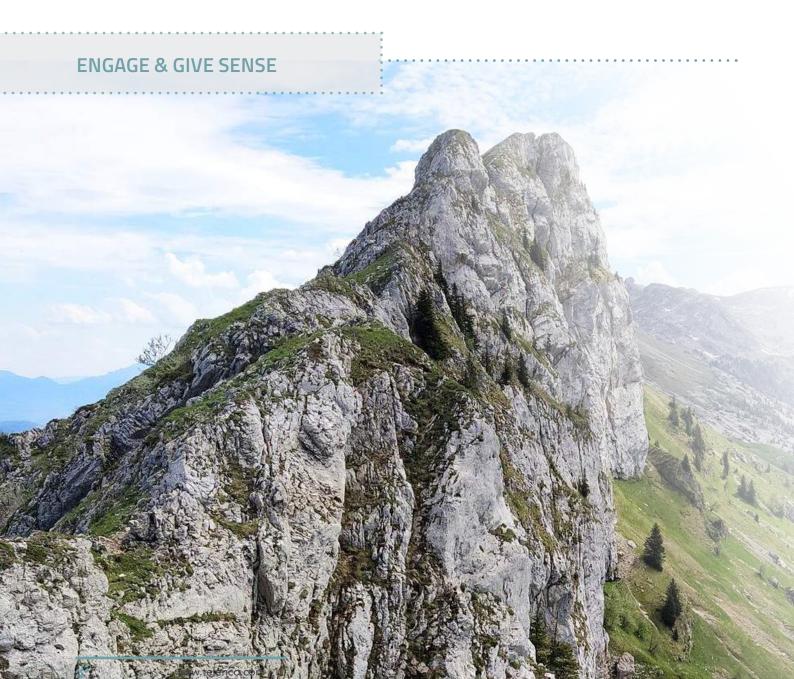
Each TED®+ product is designed with and for telecom professionals, to provide ergonomic added value that enhances the comfort and safety of every technician, while controlling costs. The genesis of many of our innovations comes from a combination of creative ideas and experience in the field.

TELENCO

A responsible and sustainable company

Telenco wants to shape the future landscape of networks sustainable manner, building on its commitments and CSR initiatives.

We strive to combine economic performance and ethical principles by favouring on the one hand the protection of the environment, and on the other hand, the human value through respectful and supportive actions.



SOCIAL & SOCIETAL

- > Non-discrimination policy
- > Working with ESATs and adapted companies
- > Internal t<mark>raining pla</mark>ns
- > Sponsorship of local associations

ETHICS

> Anti-corruption policy



- > Responsible purchasing policy
- > Code of ethical conduct

ENVIRONMENT

- > Carbon footprint and SBTi commitment
- > Waste reduction and recycling
- > Ecoconception and analysis of the life cycle of our products

HEALTH & SECURITY

> Well-being at work (osteopathy session, podiatry assessment...)
 > Preparedness for emergency situations (OHS and Fire Safety training)

> Securing machines and ports of PPE provided by Telenco

Discover all our CSR actions on www.telenco.com

DISCOVER YOUR CATALOG Tooling & Testing

TED®





Summary

Tooling

Underground networks15Manhole accessCable blowingCable pullingDrum handlingDuct cutters & scoring tools



Pole bracket installation Cable pulling Poles installation tools



PPE Antena handling

Test & Measurement Coax cables preparation tools



Tool bag & Tool cases Fiber optic cables preparation tools Fusion splicer Jointers tents Fiber optic decontamination Copper cables preparation tools Hand tools Toolkits Cable labelling & identification



Cables installation Cable pulling PPE

Testing



Fibre optic networks	.115
Essential tester	
Inspection & cleanning	



Copper XDSL networks

Essential tester Fault locator & Identification

Fault locator & Identification



Inspection & Cleaning Fault locator & Identification Consumables



Tooling

Underground networks

MANHOLE ACCESS

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MANHOLE ACCESS

Keys & cover lifter

Expert's advice -Solutions to access the manhole: which tool to choose? **RECOMMANDED TOOLS** Hammer or lifting wrench Magnetic cover lifter Magnetic cover lifter Wheeled cover lifter 1 technician 2 technicians or wheeled cover lifter Number of covers Average weight Manhole type Covers type (cast iron) Tool <20kg L0T 1 L1T 1 B125 L2T 2 20 to 50kg L3T 3 L4T 4 50 to 70kg L5T 5 L1T 1 L2T 2 20 to 50kg L3T 3 C250 L4T 4 50 to 70 kg L5T 5 L1C 2 Approx. 40kg L2C 4 L3C 6 D400 unassembled K1C 2 K2C Approx. 70kg 4 K3C 6 L1C 2 L2C 4 2 covers assembled L3C 6 D400 between 80kg and 140kg assembled K1C 2 K2C 4 K3C 6 Assembled Specific covers Concrete, pavers, painted, composite



Magnetic manhole cover lifter



CE

Weight

18.9kg

TED[®]'s Magnetic lifter is a must have tool to safely remove manhole cover. Dedicated to telecomunication engineers, this tool was designed to be use on a dayly basis by a solo engineer. Suitable for most of the iron cover up to 100kg. Our lifter is an asset helping the reduction of MSD (musculoskeletal disorders) linked to the repetitive handling of covers.

Technical specifications:

- + Maximum cover weight: 100kg
- + Can be used in pairs up to 200kg

Product benefits:

- + Reduced effort
- + Optimal working posture
- + Speed of implementation







KEYS & COVER LIFTER

TED Foldable measuring wheel Daily tool for civil works engineers. Ideal for the precision measurement of roads, pavements up to a distance of 9999.9 meters. Compact foldable Compact foldable meters. lightweight design. **Product benefits:** + Compact foldable design + Easy to carry + Robust gear transmission system **Technical specifications:** + Counter capacity: 0.1m - 9 999.9m + Folding kickstand + Folding handle ΡN Designation Weight 6776 Foldable measuring wheel TED® 1.72kg



Manhole lid hammer



The TED[®] manhole lid hammer can be used to unstick, lift and move telecom manholes covers. It can be used alone to lift hinged covers. Use it in pair to deal with non-hinged covers

Product benefits:

- + ORANGE approved
- + Replaceable and interchangeable explosion-proof soles
- + 2 sole qualities available:
 - Standard/Polyamide
 - Reinforced/Cupro beryllium: extended sole life

Technical specifications:

- + Movable inertia block in the handle
- + Hammer head with tip and hook sides
- + Hot-dip galvanized steel

PN	Designation	Weight
0336	TED® Manual manhole lid hammer/ cupro beryllium sole	7kg
0434	TED® Manual manhole lid hammer / polyamide sole	6.5kg
13037	Sole for copper-beryllium cover lifter + Screw kit	0.7kg
5206	TED® polyamide sole for manhole cover hammer + Screw kit	0.2kg





Telescopic measuring rod



The TED[®] measuring rod enables precise measurements on worksite. It is also used to measure the depth of telecom chambers. Its aluminum design makes it lightweight easy to carry.

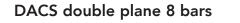
Product benefits:

- + Lightweight and easy to carry
- + Horizontal or vertical use, with integrated level
- + Carrying case

PN	Extended length	Weight
19261	5m	2.3kg



High depth manhole access solution



With 2 levels of 8 rungs each, this solution allows access of up to 4 meters. Made of aluminum, with replaceable anti-slip rungs, it has a long service life. Isolated level compensators are provided to adapt the device to the particularities of underground chamber bottoms. A handle for easy handling.

Product benefits:

- + Made for access to underground chambers
- + Non-slip rungs
- + Insulated level compensators

PN	Number of bars	Height deployed	Weight
19369	8	5.4m	17kg



In addition, consider the STANLEY pocket laser rangefinder to simply and quickly measure the depth of the chamber.



Road cones



Non-reflective tag





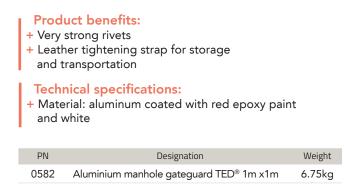
Reflective retro-beacon - Class 2

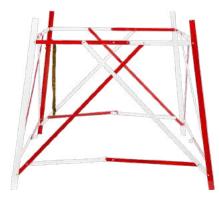
PN	Class	Height	Bands	Weighted	Conditioning	Unit Weight
6585	-	30cm	Non-reflective	-	Unit	0.53kg
2018	-	50cm	Non-reflective	-	Lot of 10	1.05kg
16059	1	50cm	Reflective sleeves	-	Lot of 10	1.3kg
16379	1	75cm	Reflective sleeves	-	Unit	3.1kg
6218	2	50cm	Reflective sleeves	-	Unit	1.31kg
16380	2	75cm	Reflective sleeves	-	Unit	4.2 kg
17415	1	50cm	Reflective sleeves	•	Lot of 10	1.9kg
17416	2	50cm	Reflective sleeves	•	Lot of 10	1.9kg
17417	2	75cm	Reflective sleeves	•	Lot of 10	4.7kg



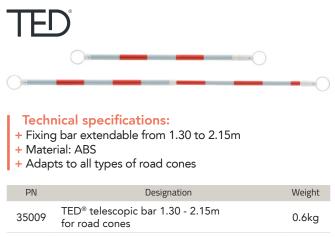


Foldable gateguard for use on worksite to secure telecom covers & chambers during work. Lightweight and easy to install. When folded, it is easy to transport and takes up little space in vehicles.





TED® telescopic bar for road cones





CABLE PULLING

A complete range of continuous rods

Designed by Telenco's R&D teams, with engineer's support & feedback, SAFE, SAFE NG & MAINROAD TED[®] Cobras are manufactured to ensure durability & long-term daily use.

Our full continuous rod range can support an engineer dealing with most of manual underground cable pulling worksite, from the main distribution networks to the customer premise (CABLETWIST & CABLEBLITZ). Daily use means that the reparability of these products is a major challenge to ensure their durability.

In addition we developped a large range of accessories to grant more flexibility to help engineers.



Detailed specifications of our rods at www.telenco-store.com

Continuous rod

Mainroad

Rod continuous Mainroad TED®

ROBUSTNESS - MODULARITY



Its modular conception enables several working positions to offer more flexibility. Assembled on a tubular frame equipped with all roads wheels, TED® Cobras are manufactured to ensure durability & long-term daily use. Equipped with two switchable guiding rings, placed on the lower & upper positions of the frame, it makes it possible to take advantage of the best angle to access the duct.

During the re-winding, the upper position use the rod's energy to assist the re-winding process & prevent engineer's back issue. The possibility to replace the rod with a secured and quick process makes the TED[®]'s rods an economic & durable solution.

Product benefits:

- + All road solid wheels
- + 4 work positions available
- + One man job rod replacement process

PN	Diameter	Length	Weight
91028	9mm	150m	36kg
1001220	9mm	200m	40.6kg
1001221	11mm	150m	44.2kg
1001222	11mm	200m	52 kg
1001223	11mm	250m	58.6kg
91027	11mm	300m	65.2kg
1001224	11mm	350m	72kg
1001566	14mm	100m	50kg
1001567	14mm	150m	60kg
1001568	14mm	200m	70kg



TEC

Replacement rod without frame

Replacement rod for Mainroad TED®

TEC

Replacement rod for continuous rod. Already calibrated and secured, ready-to-be installed on TED[®] Mainroad cage. Direct installation on the Mainroad frame with cable ties.

The rod reel is released only after being secured into the cage. This replacement system is safer than the unwinding/winding of the reel. Installation can be carry out by a solo engineer.

Product benefits:

- + Engineer's safety first
- + Time saving solution
- + Economic

Technical specifications:

+ Premium fiberglass quality



PN	Diameter	Length	Weight
91029	9mm	150m	14kg
1001225	9mm	200m	18kg
1001226	11mm	150m	19.8kg
1001227	11mm	200m	26.4kg
1001228	11mm	250m	33kg
91030	11mm	300m	42kg
1001229	11mm	350m	46.2kg
1001571	14mm	100m	25kg
1001572	14mm	150m	35kg
1001573	14mm	200m	50kg

SAFE & SAFE NG Continuous rods



STABILITY - LIGHTNESS - FLEXIBILITY

SAFE & SAFE NG design enables 2 work positions, either in a vertical or horizontal position to take advantage of the best angle to access the duct. Continuous SAFE NG rods are equipped with an external short range brake system. Equipped with a drawrope pulling guide. Highly resistant to abrasion and PVC coated fiberglass. Enhanced durability with a dedicated range guide tips and repair kit.

Safe

The horizontal position on the 3 foots frame is particularly suitable suitable for working on unstable or slippery ground (earth, gravel, pavement...).

Available in \emptyset 4.5mm, Safe rods also feature an automatic automatic brake system.

Product benefits:

- + More stable and secure horizontal working position
- + Compact, lightweight frame
- + 3 feet with gripping feet



PN	Diameter	Length	Weight
0807	4.5mm	30m	3.8kg
0561	4.5mm	60m	4.4kg
1831	4.5mm	80m	4.8kg

Safe NG

This new generation of frame offers enhanced rod durability with interchangeable guiding rings. An improved brake system to improve technician safety.

Available in $\varnothing7mm,$ it's an excellent compromise between tensile strength and elasticity.

Product benefits:

- + Interchangeable guiding rings
- + Technician safety enhanced by ¼-turn external brake (increased reactivity)
- + Reinforced frame for enhanced stability



PN	Diameter	Length	Weight
1001199	7mm	60m	10.4kg
1001200	7mm	80m	11.6kg
1001201	7mm	100m	12.5kg
1001202	7mm	130m	13kg

Replacement rod without frame

•			
PN	Diameter	Length	Weight
1001331	7mm	60m	3kg
1001332	7mm	80m	4.5kg
1001333	7mm	100m	5.45kg
1001334	7mm	130m	6.5kg

Replacement rod without frame

Ũ	Weight
0809 4.5mm 30m	0.7kg
0810 4.5mm 60m	1.35kg
0921 4.5mm 80m	1.84kg

SAFE & SAFE NG & Mainroad accessories

Accessories for TED® Mainroad

PN	Designation	Assembly	Ø Rod	Weight
09294	Rotary ball			0.07kg
11701	Ø45mm nylon brush			0.27kg
7286	Ø60mm nylon brush			0.14kg
7287	Ø80mm nylon brush	screw-on	9mm and	0.16kg
91486	Mainroad guiding ring for rod		11mm	0.10kg
2393	Screwable pulling head Ø25mm			0.05kg
10955	Adaptor F-F (M10/M8)			0.05kg
09293	Puncture resistant wheel			1.00kg
2406	Rotating ball + tip kit	screw-on		0.10kg
0828	Guide tip to pin	(supplied with end cap to pin on rod)	9mm	0.07 kg
91493	Pin-on repair kit	pin-on	711111	0.09kg
1753	Self-tightening repair kit	to tighten		0.08kg
2405	Rotating ball + tip kit	screw-on		0.10kg
0837	Guide tip to pin	(supplied with end cap to pin on rod)	11mm	0.07kg
91494	Pin-on repair kit	pin-on		0.09kg
1754	Self-tightening repair kit	to tighten		0.08kg





Nylon brush



Mainroad guiding ring for rod

Screwable pulling head

Rotating ball + tip kit

11 11

Pin-on repair kit

....



Puncture resistant wheel



Guide tip to pin



Self-tightening repair kit

Accessoires for TED[®] Safe mainroad

PN	Designation	Assembly	Ø Rod	Weight
13106	Guiding tip set of 3: Ø 7-10-13mm to screw	to screw with M5 bit		0.05kg
11993	Flexible guiding tip Ø7mm to screw in M5	screw-on		0.01kg
1002007	End connector M5 to pin	pin-on		0.01kg
1002008	Pulling eyelet guide tip M5 - Ø8mm	screw-on		0.01kg
1436	Pulling eyelet end tip Ø10mm	pin-on	4.5mm	0.01kg
12568	End connector M5 to glue - Padk of 10pcs	stick on		0.01kg
1848	Glue-on repair sleeve - Pack of 10	STICK ON		0.04kg
11499	Special glue for repair			0.05kg
13032	Complete accessory kit*	-		0.10kg
1973	Safe dispenser Ø4.5mm			3.05kg
1002009	Pulling eyelet guide tip M8 - Ø12mm	screw-on		0.01kg
1002006	End connector M8 to pin			0.01kg
2145	Pulling eyelet end tip			0.01kg
91495	Pin repair kit*	pin-on		0.01kg
13033	Pinning accessories kit*			0.10kg
12159	Glue-on repair kit* + M12 male end	stick on		0.12kg
1001599	Safe TED [®] dispenser for fiberglass rod Ø7mm		7mm	7.05kg
1001207	Guiding ring with srcews			0.01kg
1001208	F-F adapter (M10/M8) for 33kHz Ø18mm M10 probe			0.01kg
1001209	M-F adapter (M12/M8) for 33kHz Ø18mm M12 probe	-		0.01kg
1001210	M-F adapter (M5/M8) forM5F accessory mount			0.01kg





Probe adapter

Safe dispenser

www.telenco.com | 26

Cable grip

Single loop cable pulling grip M5



Galvanized steel cable grip designed for manual pulling. Fitted with M5 end cap. Fits our Cablegrip (PN: 15536) and Cabletwist (PN: 16608) rods.

Single loop cable grip standard



Standard model in galvanized steel for overhead or underground cable grip.

Junior single loop cable blitz



Galvanized steel cable grip. Suitable for manual overhead and underground pulling.

Single loop cable grip special for optical fiber cables



Short, small-diameter model suitable for pulling optical distribution cables.



Kevlar[®] cable grip offering great flexibility and strength. Specially designed to reduce friction forces with cables already installed.

	PN	Material	Single loop	Double loop	M5 tip	Breaking	Ø Cable	Length	Weight
	12276	Galvanized steel			×	2kN	4-6mm	100mm	0.01kg
M5 tip	12277	Galvanized steel			×	2kN	6-9 mm	120mm	0.02kg
M5	12278	Galvanized steel			×	2kN	9-12mm	180mm	0.03kg
	12279	Galvanized steel			×	2kN	12-15mm	230mm	0.04kg
	4046	Galvanized steel	Junior			2kN	6-10mm	120mm	0.01kg
Junior	4732	Galvanized steel	Junior			2kN	10-12mm	180mm	0.02kg
Jur	1602	Galvanized steel	Junior			2kN	12-15mm	230mm	0.03kg
	12566	Galvanized steel	Junior			8.1kN	15-19mm	280mm	0.04kg
	13103	Galvanized steel	×			5.6kN	6-12mm	490mm	0.10kg
Special FO	13104	Galvanized steel	×			8.4kN	12-19mm	490mm	0.15kg
S	13105	Galvanized steel	×			11.2kN	19-25mm	490mm	0.20kg
	0859	Galvanized steel	×			18.8kN	10-20mm	900mm	0.25kg
	0860	Galvanized steel	×			22.6kN	20-30mm	900mm	0.35kg
	0861	Galvanized steel	×			37kN	30-40mm	900mm	0.40kg
ē	0862	Galvanized steel	×			55kN	40-50mm	900mm	0.57kg
Standard	0863	Galvanized steel	×			55kN	50-65mm	900mm	0.63kg
St	0864	Galvanized steel	×			73.2kN	65-80mm	900mm	0.75kg
	0865	Galvanized steel	×			73.2kN	80-95mm	900mm	0.90kg
	1053	Galvanized steel	•			85kN	95-100mm	900mm	1.28kg
	1054	Galvanized steel	*			106kN	110-130mm	600mm	1.39kg
<u> </u>	1601	Kevlar		<		11.2kN	10-20mm	900mm	0.05kg
Kevlar	12269	Kevlar		<		16.8kN	20-30mm	900mm	0.90kg
Ť	2718	Kevlar		*		22.4kN	30-40mm	900 mm	0.11kg

CABLE PULLING

vLoc3-Cam probe detector

VIVAX METROTECH

The 3-Cam probe finder allows you to quickly and accurately locate the position of a probe. An intuitive interface guides the user to the probe using a directional arrow. When the detector passes over the probe, it provides an immediate view of the probe and displays its depth in real time.

The vLoc3-Cam has a dedicated screen for searching for probes on multiple frequencies. It is compatible with all probes and cameras on the market.

The vLoc3-Cam can also locate 50Hz and radio signals in passive mode (without a transmitter). In active mode, it is compatible with all 33kHz transmitters.



PN: 19404

Product benefits:

- + Hyper-intuitive probe search:
 - Directional arrow guides you to the probe
 - Special screen for viewing and isolating phantom signals - Probe visualization on screen, the probe turns
 - red-green when the detector is plumb
- + High-visibility color display

Technical specifications:

- + Frequencies:
 - Probe mode: 512Hz, 640Hz, 8.192kHz, 33kHz and 83kHz - Power: 50Hz
 - Radio: 10kHz-22.7kHz bandwidth
- + Detection down to 4m
- + Accuracy: ± 3% of depth
- + Large 10cm screen



PN	Designation	Power supply	Weight
19404	vLoc3-Cam probe detector pack + carrying case	6 AA batteries	3.6kg
18442	vLoc3-Cam sensor (Batteries)	6 AA batteries	2.1kg
19175	Li-Ion battery with charger for vLoc3 detector	-	0.54kg
18443	Carrying bag for vLoc3 detector	-	1.5kg



Probes and accessories



Retractable precision micro-probe with flexible head, to locate blockage points in small ducts & micro ducts. M5 female connector.

Microprobe v6:

- + Ø6.4mm
- + Length: 84mm + Max. detection
- detection depth: 2.3m
- + Supplied with 2 BR535 batteries

Microprobe	v9:	
+ Ø9mm		

- + Length: 138mm
- + Max. detection
- detection depth: 5.7m
- + Supplied with 2 BR535 batteries

33kHz Ø18.5mm probe



PN: 4033

Robust screw-in probe to locate blockages ducts & micro ducts (breakage, plugs, etc.). M10 male end. Can be fitted to rods using an adapter (Female/Female). Adapter depends on rod design.

Technical specifications:

- + Ø18.5mm
- + Length: 82mm (probe only)
- + Max. detection depth: 4m
- + Supplied with 1 x 3V Lithium battery (CR-1/3N)

			Compa	atible rods		
PN	Designation	Microprobe Model	Ø	Model	Mounting accessories	Weight
20275	33kHz microprobe	V6	3mm	Cableblitz, Cabletwist, Katiblitz	Screwing directly onto rod	0.01kg
19177	33kHz microprobe	V9	4.5mm	Safe	Screwing directly onto rod	0.04kg
1002410	Probe + adapter kit	18.5mm	7mm	Safe NG	Adapter supplied for 7mm	0.22kg
19178	Probe + adapter kit	18.5mm	7mm, 9mm, 11mm	Katimex	Adapter supplied	0.22kg
17360	Probe + adapter kit	18.5mm	9mm, 11mm	Mainroad	Adapter supplied	0.22kg
4033	Locating probe only	18.5mm	7mm, 9mm, 11mm	-	Adapter not included	0.18kg

Packs for duct blockage identification

UV

Unit

Pack 1: Cable-Blitz micro rod + Micro probe V6 33 kHz



Technical specifications: Kit contents:

ΡN

19975

+ Cable-Blitz micro rod Ø3mm x 30m + Micro probe V6 33kHz Ø6.4mm

Designation

Cable-Blitz micro rod +

Micro probe V6 33kHz

Pack 2: SAFE rod + Micro probe V9 33 kHz



Technical specifications: Kit contents:

+ Safe rod Ø4.5mm x 60m

ΡN

19975

- + Micro probe V9 33kHz Ø9mm

Pack 3: SAFE rodd + Probe V18 33kHz



Technical specifications: Kit contents: + Safe rod Ø7mm x 100m

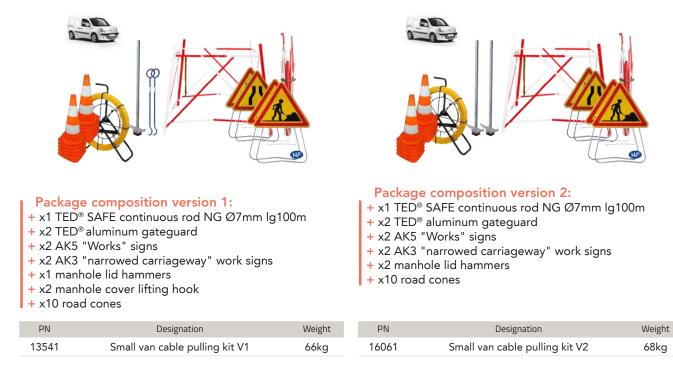
+ Probe V18 33kHz Ø18.5mm

Designation	UV	PN	Designation	UV
SAFE rod + Micro probe V9 33 kHz	Unit	19975	SAFE rod + Probe V18 33kHz	Unit

Cable pulling van kits

Small vans kit for cable pulling

Our pre-set packs are sold with white painted road cones (PN: 2018). We can also offer them with Class 1 (PN: 16059) or Class 2 (PN: 6218) reflective strips.



Large vans kit for cable pulling

Our van pull packs are sold with white raod cones (PN: 2018). We can also offer them with Class 1 (PN: 16059) or Class 2 (PN: 6218) reflective strips.



Package composition version 1:

- + x1 TED[®] MAINROAD continuous rod Ø11mm lg300m
- + x2 TED[®] aluminum gateguard
- + x2 AK5 "Works" signs
- + x2 AK3 "narrowed carriageway" work signs
- + x2 manhole lid hammers
- + x4 manhole cover lifting hook
- + x10 road cones



Package composition version 2:

- + x1 TED[®] MAINROAD continuous rod Ø11mm lg300m
- + x2 TED[®] aluminum gateguard
- + x2 AK5 "Works" signs
- + x2 AK3 "narrowed carriageway" work signs
- + x2 manhole lid hammers
- + x10 road cones

PN	Designation	Weight	PN	Designation	Weight
13542	Large vans kit for cable pulling V1	130kg	16062	Large vans kit for cable pulling V2	122kg

Customer premise micro rod

Rods



Cabletwist rod



TED Cabletwist rod is designed to facilitate the deployment of optical fiber drop cables in house ducts with several bends. Its synthetic composition makes it more flexible and particularly resistant even in the tightest bends. Its twisted monofilament structure enables to significantly reduce the coefficient of friction in the duct.

It also provides an efficient transmission of twisting movements along the length of the rod to get past any blocking points.

Product benefits:

- + Good compromise between flexibility
- + Twisted structure for a lower friction coefficient

Technical specifications:

- + Rod diameter: 4mm
- + Length: 30m
- + Robust carry cage



PN	Model	Weight
16608	Cabletwist rod only	1.2kg
17386	Cabletwist rod + pull handle	1.25kg
37004	TED® storage pouch for Cabletwist needle accessories	0.05kg

CABLE PULLING

Cable-blitz FTTP micro rod duct rod

Fibreglass micro rod duct dedicated solution for last mile customer's premise drop cables deployment. This product's main benefit: its 4mm diameter FTTPdedicated flexible guide head that makes it an optimal solution for deployments in electric conduits, already occupied with a cable (telecom, video etc.).

The fiberglass pulling rod CABLE-BLITZ from TED® is inspired of telecom engineer's everyday challenges. Designed with a handle to be easily carried in a solid cage that protects the fiberglass rod during interventions and transport.

Product benefits:

- + 3mm premium fibreglass
- + Dedicated for last miles in house & building deployment
- + Specific tip for occupied duct deployment

Technical specifications:

- + Rod diameter: 3mm
- + Length: 30m up to 50m
- + Equipped with a specific FTTP 4mm flexible tip
- + Robust carry cage with built in handle



PN	Model	Weight
15536	Cableblitz micro rod 3mm lg 30m + accessories	1kg
15924	Cableblitz micro rod 3mm lg 30m + accessories & gripping tool	1.05kg
15037	Cableblitz micro rod 3mm lg 30m + accessories + 30m replacement rod	1.45kg
6032	Cableblitz 3mm 30m replacement rod	0.5kg



Nylon thread puller



High flexibility 3mm nylon rod dedicated for short with a lot of bends for in house customer premise connection & multi dwelling deployment.

Technical specifications:

- + 6mm end tip
- + Nylon rod
- + Robust carry cage with handle



DUCT CUTTERS & SCORING TOOLS

Micro duct & duct cutter

Axial duct cutter for HDPE micro-tube 14mm max



Axial duct cutter for tube 64mm max



Micro duct & duct scoring

360° rotating pipe cutters Ø26 - 40mm



PN	Designation	Weight
	360° rotating pipe cutters Ø26 - 40mm	0.49kg

Axial duct cutter for HDPE micro-tube 28mm max



5 to 16mm	

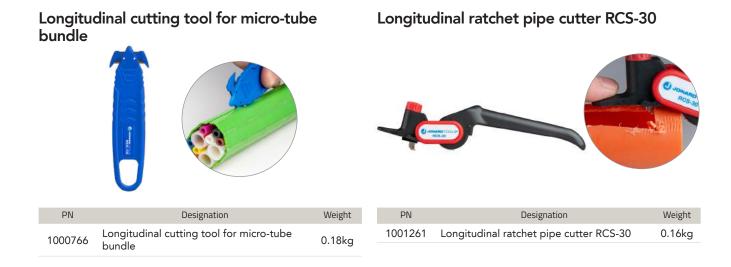
HDPE circular duct cutter



PN	Designation	Weight
1000777	HDPE circular duct cutter 5 to 16mm (thickness from 1.5mm to 3mm)	0.2kg
1000776	HDPE circular duct cutter 5 to 16mm (thickness from 1mm to 1.3mm)	0.2kg

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Micro duct & duct slitting



Deburrer for HDPE tubes and micro-tubes



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CABLE BLOWING

Blowing gun for PVC, TPC & concrete pipes

Blowing gun for PVC, TPC & concrete pipes

Used to blow a rope into a duct. The end of the gun seals the pipe. The central or lateral part incorporates a passage for the rope, which is attached to the pulling mandrel. Coupled with a compressor, the blowing gun propels the mandrel into the pipe, ensuring the rope deployment.

PN	Туре	Dimensions*	Weight
0727	Central	Ø22/24mm	0.66kg
0416	Central	Ø25/28mm	0.63kg
0417	Lateral	Ø30/33mm	0.60kg
0729	Lateral	Ø32/40mm	0.71kg
0418	Lateral	Ø42/45mm	0.71kg
0730	Lateral	Ø47/50mm	0.90kg
0419	Lateral	Ø55/60mm	0.83kg
0420	Lateral	Ø75/80mm	1.11kg
0731	Lateral	Ø77/80mm	1.16kg
0732	Lateral	Ø96/100mm	1.37kg
0733	Lateral	Ø103/110mm	1.47kg







Blowing gun for PEHD ducts



Blowing gun for PEHD micro ducts



PN	Туре	Dimensions*	Weight
6708	Central	Ø21/25mm	0.88kg
4495	Central	Ø25/28mm	0.79kg
13072	Central	Ø26/32mm	0.78kg
4496	Central	Ø27/32mm	0.78kg
5060	Central	Ø33/40mm	0.94kg
1653	Lateral	Ø41/50mm	1.01kg

Inside pipe Ø ΡN Туре Dimensions* Weight acceptable Central 13799 Ø8/10mm 8 to 10mm 0.27kg conical 11288 Central Ø11/14 mm 11mm 0.33kg Central 11229 Ø15/18mm 13 to 18mm 0.53kg conical

*Inside/outside pipe diameter

CABLE BLOWING

Pulling mandrels for PVC, TPC, & concrete pipes

The blowing mandrels are propels by compressed air into ducts. Each mandrel features a ring used to fix the rope. A calibration mandrel or a lubricant guide ball can also be fixed to this ring.











Leather mandrel



Ball type lubricant mandrel

Pulling mandrel (with front & back ring)

Pulling mandrel

Ball type pulling mandrel

- Pulling mandrel (straight & ball type):
- + Up to 600m blowing distance
- + Max pressure 6 bars
- Leather mandrels: + Leather sides: help to limit the friction into the pipe
- + Up to 600m blowing distance
- Ball type lubricant mandrel: + Their metallic structure enable to go trought duct blockage easier + More robust than a classic guiding ball type, they ensure a better duct cleaning & lubrication

PN	Туре	Dimensions*	Pipe type	Weight
0405	Ball type pulling mandrel	Ø25/28mm		0.02kg
0743	Ball type pulling mandrel	Ø30/33mm		0.03kg
0744	Ball type pulling mandrel	Ø42/45mm		0.07kg
0745	Ball type pulling mandrel	Ø55/60mm		0.11kg
0746	Ball type pulling mandrel	Ø75/80mm		0.19kg
0760	Pulling mandrel (with front & back ring)	Ø30/33mm		0.03kg
0761	Pulling mandrel (with front & back ring)	Ø42/45mm	PVC, TPC, concrete	0.15kg
0762	Pulling mandrel (with front & back ring)	Ø55/60mm		0.22kg
0763	Pulling mandrel (with front & back ring)	Ø75/80mm		0.34kg
0406	Pulling mandrel	Ø30/33mm		0.03kg
0407	Pulling mandrel	Ø42/45mm		0.14kg
0408	Pulling mandrel	Ø55/60mm		0.16kg
0409	Pulling mandrel	Ø75/80mm		0.29kg
11287	Leather mandrels	Ø11/14mm		0.02kg
10938	Leather mandrels	Ø15/18mm		0.02kg
1823	Leather mandrels	Ø21/25mm		0.02kg
4499	Leather mandrels	Ø25/28mm	PEHD Tube	0.03kg
4500	Leather mandrels	Ø26/32mm		0.04kg
4501	Leather mandrels	Ø33/40mm		0.04kg
2442	Leather mandrels	Ø41/50mm		0.13kg
6355	Ball type lubricant mandrel	Ø33/40mm		0.04kg
5054	Ball type lubricant mandrel	Ø42/45mm	PVC, TPC, concrete	0.1kg
11195	Ball type lubricant mandrel	Ø55/60mm	rvC, IrC, concrete	0.12kg
5056	Ball type lubricant mandrel	Ø75/80mm		0.31kg

*Inside/outside pipe diameter

Foam ball



Foam balls enables multiple applications. Mainly used to clean & lubricate ducts, they also help to identify duct blocages prior to any cable or rope blowing.

PN	Dimensions*	Weight
10170	Ø25/28mm	0.01kg
10171	Ø30/33mm	0.01kg
10172	Ø33/40mm	0.01kg
10173	Ø41/50mm	0.02kg
10174	Ø42/45mm	0.02kg
10176	Ø55/60 mm	0.05kg
10180	Ø75/80mm	0.08kg
10182	Ø96/100mm	0.14kg

*Inside/outside pipe diameter



Duct calibration

Calibration mandrels

Calibration mandrels are used to check inside duct diameters & prevent any crush. They come along with pulling mandrels & enable a 2 in 1 solution: calibration + rope pulling at the same time.



Calibration mandrel for PVC, TPC, concrete ducts



Calibration mandrels for HDPE ducts

PN	Dimensions*	Inside pipe Ø	Ø center disk	Pipe type	Weight
0410	Ø25/28mm	25mm	22mm		0.04kg
0411	Ø30/33mm	30mm	27mm		0.05kg
0412	Ø42/45mm	41.4mm	38mm	PVC, TPC, concrete	0.14kg
0413	Ø55/60mm	56mm	50mm		0.16kg
0414	Ø75/80mm	75mm	70mm		0.32kg
5069	Ø27/32mm	27mm	24mm		0.05kg
1042	Ø33/40mm	32.6mm	28mm	PEHD Tube	0.05kg
2443	Ø41/50mm	40.8mm	36mm		0.16kg

*Inside/outside pipe diameter

Please refer to the recipe booklet to qualify the sizes. Consult us for other sizes.

Cable blowing trought ocuppied pipes

Blowing rope kit trought occupied PVC ducts

Used to blow rope into PVC ducts with cables already deployed. Max distance up to 300m, suitable for ducts of 45mm, 60mm, 80mm.

Kit details:

- + 3 set of ocuppied duct type of pulling mandrels
- (45mm, 60mm, 80mm)
- + 1 blowing gun to be equipped with end connectors
- + 3 end connectors (45mm, 60mm, 80mm)
- + 1 adaptor for the 45mm end connector assembly

PN	Designat	Weight	
0738	Blowing rope kit trought occupied PVC ducts		3.74 kg
PN	Designation	Dimensions*	Weight
2518	Blowing mandrel for ocuppied duct	Ø42/45mm	0.08kg
2519	Blowing mandrel for ocuppied duct	Ø55/60mm	0.16kg
2520	Blowing mandrel for ocuppied duct	Ø75/80mm	0.20kg
5216	Blowing gun for ocuppied ducts	Ø42/45mm	0.78kg

*Inside/outside pipe diameter



Blowing rope kit trought occupied PVC ducts



Blowing mandrel for ocuppied duct Blowing gun for ocuppied ducts

CABLE BLOWING

Parachute blowing mandrel

2 in 1 solution to be blown in empty or ocuppied PVC pipes & HDPE ducts. In addition a swivel installed between the parachute & the rope is strongly recommanded to prevent any torsion in the duct & limit any rope jaming knots.

Parachute blowing mandrel



Higly flexible, designed for rope blowing in telecom pipes. Co-developped with a specialist manufacturer of parachute. The specific raw material used to manufacture these mandrels ensure a very lightweight & flexible structure to go trought any obstacle (duct crush, cable). Up to 800m blowing distance.

Product benefits:

- + Lightweight & air blowing capacity
- + Suitable for empty or ocuppied ducts
- + Fully textile materail with none rigid component that
- could become a point of friction & result in a blockage
- + Wide range of use

PN	Designation	Inside pipe Ø	U.V	Weight
37000	Parachute blowing mandrel TED® - Size 1	from 20 to 60mm	Lot of 3	0.001kg
37001	Parachute blowing mandrel TED® - Size 2	from 60 to 150mm	Lot of 2	0.002kg



TFD

Nylon blowing mandrel



Swivels



Made with a thick nylon structure, they offer a good compromise between rigid & flexible blowing mandrels.

PN	Designation	Weight
90173	Nylon blowing mandrel 19mm	0.01kg
90174	Nylon blowing mandrel 25mm	0.01kg
90345	Nylon blowing mandrel 38mm	0.02kg
90175	Nylon blowing mandrel 51mm	0.04kg
90176	Nylon blowing mandrel 76mm	0.05kg
11239	Nylon blowing mandrel 102mm	0.05kg
11235	Nylon blowing mandrel 127mm	0.06kg
11240	Nylon blowing mandrel 153mm	0.08kg

Essential to avoid any torsion of the cables and ropes while they're being deployed. Installation at the end of the mandrels, they enable to reduce the risk of rope jaming knots

PN	Designation	Weight
0866	Swivels TED [®] Ø16mm	0.06kg
1055	Swivels TED [®] Ø18mm	0.07kg
1056	Swivels TED [®] Ø26mm	0.19kg
1057	Swivels TED [®] Ø30mm	0.49kg
1058	Swivels TED® Ø36mm	0.74kg

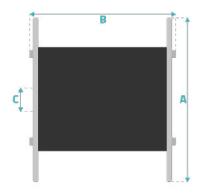


DRUM HANDLING

- Expert's advice -

How to choose the suitable solution to proceed with telecom cable unwinding

A fiber optic cable is very sensible, it's has to be handled with care to ensure the network quality & prevent any damage to the fiber. It is then very important to choose the dedicated drum handling solution depending of the drum specification & the condition in which it will be used.



A WELL-SIZED SOLUTION

If it's undersized or oversized, blockage risks are high. Risks are not only a speed slow down, but it could also generate major tensions on the cable. It's then mandatory to check for each project that the drum dimensions will be compatible with the capacity of the drum roller.

- (A) Height of the drum: For the drum roller, it has to be adapted to the distance between the front & rear rollers. For drum jacks, to their lifting height.
- (B) Width of the drum: Ensures that the roller's width or the lenght of the bar is well calibrated. It is strongly recommanded to keep enough margin so that the drum will not touch the sides.
- (C) The axis hole: In the case of axis unwinding, it has to be compatible with the diameter of the bar which support the drum.



A SOLUTION ADAPTED TO THE DRUMS QUALITY

Drum's sides can become fragile and no longer able to support the drum's weight. Solutions with "roller" will then no longer be suitable.

Caution: Drums made with metal edge or straps are not compatible with an aluminium roller. Because of the raw material, aluminium rollers will quickly be damaged.

A SOLUTION ADAPTED TO THE PURPOSE

When used in a warehouse to unwind cables regarding worksite needs, the solution is fixed in a controlled environment and installed on a flat floor. There is no major limits/risks in this configuration, then most of the solutions are suitable. Therefore, when the unwinding takes place on the worksite, conditions are way more difficult because it's not a controlled environment for the engineers. The floor could be uneven, loose or sloping. It also mandatory then to be able to move the solution along with worksite progress.

Backbone	e, transport, distribution networks	Custome	er connection & last mile access
SOLUTION	IN INTERVENTION?	SOLUTION	IN INTERVENTION?
Cable roll-off rails	Yes absolutely This type of roller is quite easy to install & robust. This solution will meet most of the requierments.	Cable drum roller	Yes absolutely This type of roller is quite easy to install & robust. This solution will meet most of the requierments.
Drum jacks	Yes if needed Particularly convinient to compensate grounds levels. Jacks has to be installed on a flat surface, then their use on worksite is not really relevant.	Non hydraulic jacks	Yes if needed Vertical type of jacks enable to deal with a large range of drums. It's more suitable for indoor cable deployment because of the unwinding direction.
Trailer	Recommended The trailer is ideal for worksite in mobility. The drum is secure on the trailer, to ensure engineer's safety. But, it's quite bulky & heavy, really convinient for big & heavy drums.	Foldable & compact drum roller	Recommended Strongly recommanded for customer connection engineers. Hence it's super easy to carry, it enables to save a lot of time. Even if the edge of the drum are damaged, this type of roller using the main axis could still be suitable for a safe use.

Drum jacks

Hydraulic & non hydraulic drum jacks

These solutions are a suitable alternative to trailers for difficult outdoor worksite to access, and even more suitable for indoor warehouse cable pre-cut. The independently height-adjustable jacks allow installation surface with different ground levels. In addition to the Drum jacks there is a set of mandatory accesories to ensure a safe use : a support bar + locking ties.

PN	Designation	UV	Weight
10372	Hydraulic drum jacks Ø1100 - 1600mm up to 4T	Pair	32kg
4581	Hydraulic drum jacks Ø800 - 2200mm up to 10T	Pair	106kg
4583	Hydraulic drum jacks Ø800 - 3200mm up to 10T	Pair	126kg
19008	Support bar - Ø51mm Lenght 1500mm + locking ties for hydraulic jacks up to 3T	Pack	16kg
19009	Support bar - Ø76mm Lenght 1850mm + locking ties for hydraulic jacks up to 8T	Pack	42kg
1001179	Non hydraulic drum jacks TED® Ø1100mm - 1700mm up to 1.6T	Pair	13.6kg



Pack



PN: 19008 & 19009

	PN: 10372	PN: 4581	PN: 4583	PN: 1001179
Permissible spindle Ø	1100-1600mm	800-2200mm	800-3200mm	1100 - 1700mm
Max. support bar Ø		76mm		55mm
Lifting capacity	4 tons	10 tons	10 tons	1.6 tons
Footprint	400x200mm	540x455mm	540x455mm	400x200mm
Height (folded)	625mm	1100mm	1695mm	635mm
Number of adjustment steps	3	7	13	-
Weight	2 x 16kg	2 x 53kg	2 x 63kg	2 x 13.6kg

Drum rollers

Cable roll-off rails

Used in pairs, they adapt to all reel widths. All models are equipped with a brake system for easy and safe loading and unloading.

Steel cable roll-off rails Ø1650mm



Cable roll-off rails Ø1200mm



		Τοι			
PN	Material	Ø max.	Weight max.	UV	Weight
1001177	Alu	1200mm	1000kg	Pair	16kg



Adjustable cable rails for drum up to Ø1.65m



TED[®] adjustable cable roller rail offers versatility of the drum roller. Equipped with 2 stabilisation bars to unify each roller. This configuration is really handy to keep a paralel position while the drum is positonned on the cable roller & then unwinded. Rollers are set with 3 different positions which ensure a wide range of drums.

Product benefits:

- + No tools to adjust each roller position
- + One man job (18kg per roller, bar included)
- + Versatile: From 600mm to 1650mm drums diameter

+ Safety: Cable rollers will remain parallel & stable while the drums are loaded & unloaded.



			iource		
PN	Material	Ø minmax.	Width max.	Weight max.	Weight
37003	Steel	600-1650mm	1095mm	2500kg	36kg

Cable drum roller

One-piece drum roller. Sturdy, welded frames. Placed on the ground, they are immediately operational.

Ø700mm cable drum roller



PN	Ø max.	Width max.	Weight max.	Weight
1000851	700mm	500mm	200kg	9.8kg



Foldable drum & rope dispenser

Foldable and equipped with wheels, they facilitate reel handling on site and between sites. Suitable for handling drums with damaged flanges.

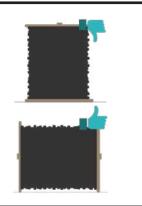


Expert's advice -

Drum's storage

After 1st use, storage of the drum in a vertical position could either damage the flasque, and/or results un issues while unwinding the cable.

We strongly recommand to proceed with horizontal storage. This position prevent water stagnation on the flasque & unregular deformation.

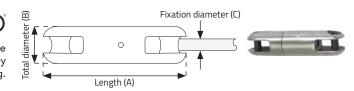




Swivels

Ball swivels

Ball swivels prevent twisting of the deployed elements during the pulling/unwinding phase. Mounted at the rear of the mandrels, they limit the risk of knots when pneumatically switching with the pull string.



PN	Designation	total Ø (B)	Length (A)	Ø fixation (C)	CMU* (daN)	CMR** (daN)	Weight
0866	TED [®] Ball swivels Ø16mm	16mm	64mm		330	1 000	0.06kg
1055	TED [®] Ball swivels Ø18mm	18mm	60mm	9mm	350	1200	0.07kg
1056	TED [®] Ball swivels Ø26mm	26mm	85mm	14mm	750	2500	0.19kg
1057	TED [®] Ball swivels Ø30mm	30mm	140mm	13mm	2000	7200	0.49kg
1058	TED [®] Ball swivels Ø36mm	36mm	156mm	16.3mm	5000	12000	0.74kg

* Maximum working load **Minimum breaking load

Shackle

Straight shackle with bolt

Its smooth bolt facilitates passage through pipes. This shackle is ideal for connecting a pulling needle to a cable puller, for example.

Technical specifications: + CMU: 260 daN + CMR: 400 daN

DN	Decignation

PN	Designation	Weight
12573	Straight shackle with countersunk screw bolt Ø10mm	0.08kg

Roller cable guide

Roller cable guide

Solution to prevent friction damage on the cable prior to get into the duct. Made of galvanized steel with a polyamide roller.

Technical specifications: + Length: 330mm

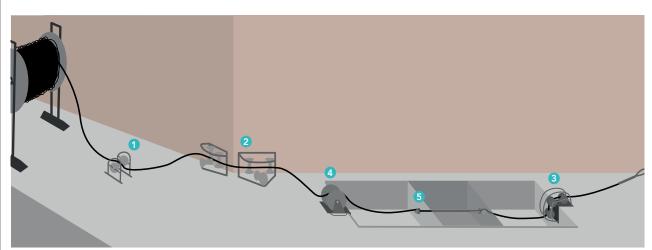
PN	Designation	Weight
1059	Roller cable guide Ø25-28mm	0.71kg
1060	Roller cable guide Ø30-33mm	0.77kg
1061	Roller cable guide Ø42-45mm	0.88kg
1062	Roller cable guide Ø55-60mm	0.99kg
1063	Roller cable guide Ø75-80mm	1.82kg



DRUM HANDLING -

Expert's advice

Cable pulling: How to avoid friction



Often neglected. Cable guides are essential to limit any damage on the cable due to friction prior to be deployed in the ducts. Less friction is also a key to reduce all efforts to pull the cable.

Straight () They make it easier ton unwind and advance the cable along the worksite preventing it from ground friction.

Angles 2 they allow you to negotiate building corners (on the surface) and changes of direction (in trenches).

3 pulleys (3) or steerable (4) they prevent abrasion on the edge of the chamber or when lowering into trenches.

Finally, **cable rollers (5)** are essential to guide the cable into the conduit and prevent wear caused by the edge of the sheath.



Cable rollers

Triple cable roller

A triple cable roller equipped with 3 rollers designed to be placed at the manhole edge.



Corner cable roller

A heavy duty cable roller for pulling the heaviest cables around difficult corners. The unit consists of a heavy duty frame with two vertical and one horizontal steel rollers.

Sti Cab und cab

Swiveling Edge Roller TED®

Cable laying roller fit for all installations of 80mm cables & ropes in manholes entrance. Running roller made of galvanized steel mounted on shielded ball bearing 360° pivotable. This tool ensures a non-damaging deployment of the cable outer jacket & its content (fibre, copper & aluminium strand).

Straight line cable roller TED®

Cable laying ground roller for all underground deployment of Ø135mm cables & ropes. This tool ensures a nondamaging deployment of the cable outer jacket & its content (fibre, copper & aluminium strand). Designed with a robust long-life galvanized steel frame.





PN	Model	Material	Maximum cable diameter	Dimensions	Weight
1068	Triple cable roller	Galvanized steel	120mm	530 x 430 x 230mm	11.8kg
1000852	Swiveling Edge Roller TED®	Galvanized steel	80 mm	300 x 245 x 150mm	5.9kg
1065	Corner cable roller	Galvanized steel	140 mm	600 x 280 x 260mm	10.4kg
1000850	Straight line cable roller TED®	Galvanized steel	135 mm	300 x 240 x 250mm	3.6kg



Cable drum trailer

Site uncoiler

Ideal solution for itinerant jobsites.

A range of robust trailers with finishes designed for the field: captive parts, automatic axle locking for drums, lighting on silentblocs and protected to prevent breakage when maneuvering, metal-reinforced jockey wheel as standard*. *from 750kg model upwards

- **Product benefits:**
- + Full hot-dip galvanizing
- + Suspended axle
- + Quality finishes



PN 1106



PN 6028

PN 3120

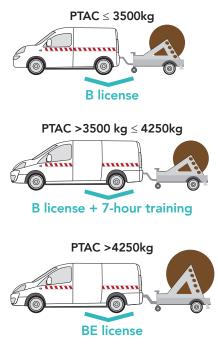


PN 2691

Expert's advice

What license do you need to tow trailer?

Towing a trailer is all a question of GVW*! The license class depends on the GVWR of the towing vehicle + trailer**.



* The GVW or Gross Vehicle Weight Rating represents the total weight that a loaded road vehicle must not exceed. On the vehicle registration document, the GVW is indicated in kilograms in box F.1. ** The trailer's GVW must be less than or equal to the unladen weight of the towing vehicle.

	Cable drum 0T5 PN: 1106	Cable drum 0T750 PN: 6028	Cable drum 0T750 PN: 1108	Cable drum 2T PN: 3120	Cable drum 2T5 PN: 2691
Weight	105kg	320kg	380kg	640kg	680kg
PTAC	520kg	750kg	1400kg	2000kg	2500kg
Useful load	395kg	430kg	1020kg	1360kg	1820kg
Max. permissible drum Ø	1.40m	1.65m	1.65m	2.60m	2.60m
Max. permissible drum width	0.8m	1.25m	1.25m	1.32m	1.32m
Loading unloading	By tilting	Hydraulic beam	Hydraulic beam	Hydraulic beam	Hydraulic beam
Tiller height adjustment	Manual	Crank assistance	Crank assistance	Crank assistance	Crank assistance
Dimensions (overall) LxW	1.60x2.80m	1.95x3.50m	1.95x3.50m	2.09x3.50m	2.09x3.50m



Tooling

Overhead networks

POLE BRACKET INSTALLATION

Stainless steel band & buckles	.48
Banding accessories	.49
Banding tools	.50
Poles & wall cable capping,	
fitting & fastening	.51

CABLE PULLING

Pullevs	 2
- J -	

POLES INSTALLATION TOOLS

Poles jack......53

POLE BRACKET INSTALLATION -

Stainless steel band & buckles



Product benefits:

- + 3 stainless steel grades available: AISI 201 / AISI 304 / AISI 430
- + Strip deburred
- + Recyclable, ergonomic dispenser

Characteristics of the different grades available:

Grades	Symbolic designation	Resistance tensile strength (N/mm2)	Elongation at break	Complies with specifications
AISI201	X12CrMnNiN17-7-5	750 to 950	45% min	ENEDIS/ORANGE
AISI304	X5CrNi18-10	540 to 750	45% min	ENEDIS/ORANGE
AISI430	X6Cr17	450 to 600	20% min	-

Stainless steel band 50m (sold in boxes of 5 rolls)

Designation	Model	PN	PN	PN
Stainless steel band 20 x 0.7mm	SB207	0341	5729	0038
Stainless steel band 20 x 0.4mm	SB204	6618	6582	0037
Stainless steel band 20 x 0.4mm brown	SB204M	-	1774	-
Stainless steel band 10 x 0.7mm	SB107	0343	6661	0040
Stainless steel band 10 x 0.4mm	SB104	8403	0349	0039

Stainless steel band 30m (Sold in boxes of 5 rolls)

	Shade	AISI 201	AISI304
Designation	Model	PN	PN
Stainless steel band 3/4" x 0.03"	SB207S	0327	4525
Stainless steel band 5/8" x 0.03"	SB167S	1867	8404
Stainless steel band 1/2" x 0.03"	SB137S	8405	1868
Stainless steel band 1/2" x 0.016"	SB134S	4524	8258
Stainless steel band 3/8" x 0.03"	SB107S	1869	8406



Banding accessories

Standard buckles



B10



B20M

Buckles for stainless steel band.

PN	Model	Width	U.V	Weight
0046	B10	10mm	Bag of 100	0.22kg
0047	B20	20mm	Bag of 100	0.60kg
1793	B20M	20mm	Box of 100	0.60kg
*D20NA. L.			and CD204N4	

*B20M: brown color for stainless steel band SB204M

Reinforced buckles



Reinforced buckles for stainless steel band AISI304 grade.

-				
PN	Model	Width	U.V	Weight
0027	BIB10	10mm - 3/8"	Box of 100	0.44kg
4268	BIB13	1/2"	Box of 100	0.94kg
5617	BIB16	5/8"	Box of 100	1.19kg
0045	BIB20	20mm - 3/4"	Box of 100	1.40kg

Mesh



25 x 25 and 25 x 60 Mesh

Fixing of insulated cable ducts to ENEDIS supports. 10-meter roll. Hot-dip galvanized steel.

PN	Dimensions	U.V	Weight
0217	25 x 25mm	Box of 100	1.45kg
1024	25 x 40mm	Box of 100	1.70kg
6807	25 x 60mm	Box of 100	2.20kg

Rubber protective band for steel band



PN	Designation	U.V	Weight
1265	For 10mm stainless steel band	Box of 100	0.39kg
0870	For 20mm stainless steel band	Box of 100	0.63kg

Banding tools



Steel band cutting shears



	PN: 0028	PN: 09082	
PN	Designation		Weight
0028	Steel band cutting shears		0.42kg
09082	Steel band cutting shears flat type		0.56kg

Banding tool pack

Pack composition:

- + 1 Ratchet or Screw type banding tool (depending on the pack)
- + 1 Steel band cutting shears
- + 1 hammer
- + 1 pair of high protection nitrile palm coated work gloves
- + 1 Storage case for tools

PN	Designation	Weight
13739	Banding tool pack ratchet type	3kg
13738	Banding tool pack screw type	3.3kg



PN: 13739

PN: 13738

Wooden pole probe tester





Poles & wall cable capping, fitting & fastening

Cable fixing bracket on pole



BIC-E50 enables to secure the cable to the pole. Installation each 30mm with 9mm (width) cable ties design (availables in 180, 260, 360mm) depending on the cable cable diameter to fix.

PN	Model	U.V	Weight
0386	BIC-E50	100	0.01kg



PVC Cable capping for poles

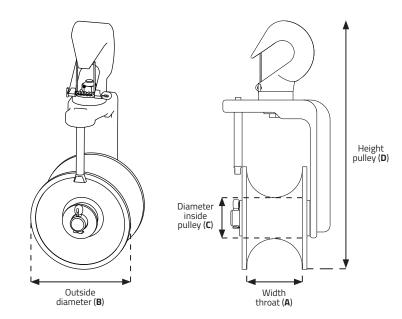


PN	Model	Diameter	Length	C	olor	U.V	Weight
2063	GPC12	12mm	2m	\bigcirc	Grey	20	0.36kg
2064	GPC12l	12mm	2m	\bigcirc	lvory	20	0.36kg
2615	GPC35	35mm	2.75m	\bigcirc	Grey	10	1.03kg
0053	GPC35l	35mm	2.75m	\bigcirc	lvory	10	1.03kg
0052	GPC35M	35mm	2.75m		Brown	10	1.03kg
2616	GPC60	60mm	2.75m	\bigcirc	Grey	10	1.88kg
0056	GPC60I	60mm	2.75m	\bigcirc	lvory	10	1.88kg
0055	GPC60M	60mm	2.75m		Brown	10	1.88kg
0057	GPC90	90mm	2.75m	\bigcirc	Grey	5	2.00kg
0059	GPC390I	90mm	2.75m	\bigcirc	lvory	5	2.00kg
0058	GPC90M	90mm	2.75m		Brown	5	2.00kg
0060	GPC120	120mm	2.75m	\bigcirc	Grey	5	3.00kg
0062	GPC120I	120mm	2.75m	\bigcirc	lvory	5	3.00kg
0061	GPC120M	120mm	2.75m		Brown	5	3.00kg
1556	GPC140x50	140 x 50mm	2.75m	\bigcirc	Grey	5	3.00kg
09535	GPC140x50M	140 x 50mm	2.75m		Brown	5	3.00kg

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CABLE PULLING

Pulleys



	PN	Designation	CMU* (daN)	Max. range	Width throat (A)	Pulley outside diameter (B)	Pulley inside diameter (C)	Overall height (D)	Weight
	0114	Swivelling pulley RO150	150	70m	42mm	77mm	30mm	178mm	0.4kg
6	7638	Straight pulley RO200	200	70m	28mm	150mm	90mm	297.5mm	0.95kg
	6815	Straight pulley RO500	500	150 m	27mm	247mm	188mm	395mm	2kg
	0115	Straight pulley RO800	800	180 m	62mm	245mm	128mm	455mm	3.3kg

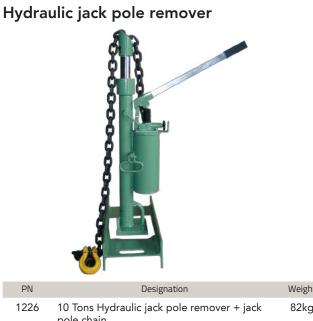
* Maximum payload



POLE INSTALLATION TOOLS

Poles jack

Jacks



Hydraulic jack pole remover



Designation

5 Tons Hydraulic jack pole remover + jack

PN	Designation	Weight	PN
226	10 Tons Hydraulic jack pole remover + jack pole chain	82kg	8397

Digging auger & Pinch point crow bar

Digging auger



PN	Designation	Weight
1230	Digging auger 1m + 1m extension lead	7.62kg
1231	1m extension lead	2.61kg

Pinch point crow bar Leborgne

pole chain

Product benefits:

- + High resistance: Forged tool for an enchanced durability
- + Ergonomics: octagonal cross-section for a better grip + Efficiency: diamond-sharpened tip for better ground penetration

'		
PN	Designation	Weight
19038	Pinch point crow bar LEBORGNE - Lenght 2m - Ø25mm	7.7kg

TED

Weight

32kq

Half-moon punner

	Bodd#	
PN	Designation	Weight
0585	2m half-moon punner	9.78kg

PN	Designation	Weight
1000511	TED® Pinch point crow bar 1.50m lenght	8.30kg
1000512	TED [®] Pinch point crow bar 2m lenght	17kg
1000513	TED [®] Pinch point crow bar 2.50m lenght	13kg





Tooling

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PPE

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ANTENA HANDLING

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Fall arrest solutions

AVAO BOD FAST Harness





Product benefits:

+ Leg loops equipped with FAST LT buckles for quick and easy fastening and unfastening without loss of adjustment, even while wearing gloves

Technical specifications:

- + Fall arrest harness, suitable for work-positioning and suspension harness is designed for greater comfort in all situations. Features, ventral, lateral, sternal, dorsal, rear attachment points. + EN 813:2008
- + EN 358:2000
- + EN 361:2002

ASTRO BOD FAST Harness



Product benefits:

+ With an integrated CROLL L ventral rope clamp

Technical specifications:

- + Fall arrest harness, suitable for work-positioning and suspension harness is designed for greater comfort in all situations. Features, ventral, lateral, sternal, dorsal, rear attachment points.
- + EN 358:2000
- + EN 361:2002
- + EN 813:2008
- + EN 12841:2006

PN	Size	Weight	PN	Size	Weight
13155	TO	2.3kg	15550	ТО	1.9kg
13615	T1	2.4kg	14414	T1	1.9kg
14466	T2	3.0kg	14725	T2	1.9kg



ANTENA HANDLING

Winch & pulleys



ASAP'SORBER AXESS Energy absorber for ASAP & ASAP LOCK



Length

40cm

ASAP'SORBER Energy absorber for ASAP & ASAP LOCK





Technical specifications:

- + Materials: polyamide and polyester
- + Load capacity (20cm model): 50 to 130kg + Load capacity (40cm model): 250kg

+ EN 355:2002

Weight

0.2kg

PN	Length	Weight
17788	20cm	0.1kg
17789	40cm	0.1kg

Expert's advice

ΡN

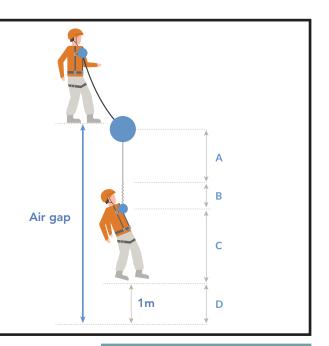
17786

The air gap

- The air gap is the height required under the telecoms technician (with the use of a fall arrest system) to prevent them from colliding with an obstacle when falling. There are 2 types of air draught:
- Available air gap: this is the distance between the structure on which the telecoms engineer is working at height and the the nearest obstacle (ground, balcony, etc.).
- Required air gap: the minimum distance required that, if the telecom engineer falls, he or she will not collide against the nearest obstacle.

Air gap calculation:

Length of the lanyard (A) + Tear of the energy absorber absorber (B) + Height of the person (C) + Safety margin imposed by the standard: 1 m (D)



TEST & MEASUREMENT

Antenas alignment

Mobile networks toolkit



Included:

- + 2 in 1 optical tester. to deal with VFL/OPM measurements
- + A copper tester to deal with RJ45 cables
- + All VDE tools to deal with active equipment. powered by energy

PN	Designation	Weight
1001877	4G/5G mobile network technician pack	23kg

3Z RF VIAVI Antenna alignment tool including visual camera soft



PN	Designation	Weight
20004	VIAVI 3Z RF Vision antenna aligner + camera display option	1.9kg

Electromagnetic waves detector EME Guard XS 40 GHz



PN	Designation	Weight
20004	Radio electromagnetic field detector EME	1kg

Winch pack and accessories by Harken including power tools



PN	Designation	Weight
1001259	Winch pack with screwdriver and descender	17.9kg

Carry pack for charge handling

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PN	Designation	Weight
1001255	Carry pack for charge handling	6.6kg

CELaligner -Antenna alignment tool



PN	Designation	Weight
19443	CELaligner [®] - Antenna inclination and elevation adjustment	3kg

Electromagnetic waves detector EME Guard XS 6GHz



PN	Designation	Weight
18430	Radio electromagnetic field detector EME	1kg

COAX CABLES PREPARATION TOOLS

Stripping tools

Each tool is composed of one common part (red) plus one "insert" part specific per type of cable and connector family. Please refer to below matrix to choose the dedicated combination :

Coaxial cables & connector preparation tool from ¼" to 7/8" (CELLFLEX & SUPERFLEX)



Coaxial cables & connector preparation
tool from 1-1/4" to 1-5/8"
(CELLFLEX & SUPERFLEX)



Model	Weight	Model	Weight
Coaxial cables & connector preparation tool from \mathcal{V}_4'' to 7/8" (CELLFLEX & SUPERFLEX)	0.070kg	Coaxial cables & connector preparation tool from 1-1/4" to 1-5/8" (CELLFLEX & SUPERFLEX)	0.070kg

Product benefits:

+ Precision cable preparation

- Pre-set blade position to ensure an exact and repeatable cut

+	Intuitive 1	tool
---	-------------	------

- 2 in 1 cable & connector tool

+ Long-lasting cutting blades

- Easy to clean, smooth dielectric surface improves IM performance

	C .					Cables	section				
PN RFS	Connector family	1/	'4"	1/	2"	7/	'8"	1-1	/4"	1-5	5/8"
	. carring	CELLFLEX	SUPERFLEX								
TRIM-SET-L114-D01	Premium	-	-	-	-	-	-	20850	-	-	-
TRIM-SET-L12-C02	Standard	-	-	40387	-	-	-	-	-	-	-
TRIM-SET-L12-D01	Premium	-	-	40464	-	-	-	-	-	-	-
TRIM-SET-L14-D01	Premium	40386	-	-	-	-	-	-	-	-	-
TRIM-SET-L158-C02	Standard	-	-	-	-	-	-	-	-	40390	-
TRIM-SET-L158-D01	Premium	-	-	-	-	-	-	-	-	40462	-
TRIM-SET-L78-C02	Standard	-	-	-	-	40388	-	-	-	-	-
TRIM-SET-L78-D01	Premium	-	-	-	-	40465	-	-	-	-	-
TRIM-SET-S12-C02	Standard	-	-	-	40384	-	-	-	-	-	-
TRIM-SET-S12-D01	Premium	-	-	-	40463	-	-	-	-	-	-











1/4" CELLFLEX cable

1/2" CELLFLEX cable

7/8" CELLFLEX cable

1.1/4" CELLFLEX cable

;;;



TOOLING Tools

Tooling

Tools

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TOOLKITS

Toolkits	۰	25	5
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CABLE LABELING & IDENTIFICATION

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Labels		

TOOL BAG & TOOL CASE

Trolley, bagpacks & cross body bag

Trolley Tool Case

Product benefits:

- + Time-saving: all the tools have a place and are easily accessible
- + Multiple storage compartments for organisation of tools
- + Comfort: large all-terrain wheels
- + Safety: protects your back when transporting

Technical specifications:

- + Telescopic handle
- + Storage provided for subscriber boxes
- + Large interior storage compartment with removable
- central divider
- + 9 exterior storage pockets

PN	Designation	Weight
32079	TED® Trolley Tool Case	5.50kg

Trolley sold empty, without tools





Trolley Tool Backpack



Weight

3.25kg

TEC

Product benefits:

- + Time saving: all the tools have a place and are easily accessible
- + Comfort: transforms into a trolley with a simple telescopic handle extension
- + Practicality: the removable bag allows you to easily access tools

Technical specifications:

- + Padded straps and back
- + The main pocket can be opened at 90°
- + Removable storage
- + 2 external storage pockets



ΡN Designation 32081 TED[®] Trolley Backpack

Backpack sold empty, without tools



TED® Backpack

Product benefits:

- + Time saving: all the tools have a place and are easily accessible
- + Comfort: padded shoulder straps and handle
- + Practicality: the bottom of the bag is reinforced
- + Completely waterproof, it can be placed anywhere

Technical specifications:

- + Two carrying handles: one soft and one reinforced
- + Padded back and shoulder straps
- + 2 large interior pockets with around ten locations
- + 1 interior pocket and 1 exterior
- + Additional storage on the sides
- + Openable flap to improve access to
- bag contents

ΡN Designation 32080 TED[®] Backpack

Backpack sold empty, without tools



Weight 2.45kg



TOOL BAG & TOOL CASE



Optima tool bag



Product benefits:

- + Robust and light, practical and comfortable
- + Plenty of storage



PN	Designation	Weight
10841	Optima tool bag	3.08kg
Tool bag sold empty without tools		



Crossbody tool bag

TEC

Weight 0.57kg

Product benefits:

ΡN

- + Adjustable shoulder strap allowing the bag to be carried shoulder or waist
- + Lightness thanks to its 100% textile composition
- + Practicality with its multiple compartments and storage pockets storage



	Designation
13814	Crossbody tool bag
Tool bag sold	empty, without tools

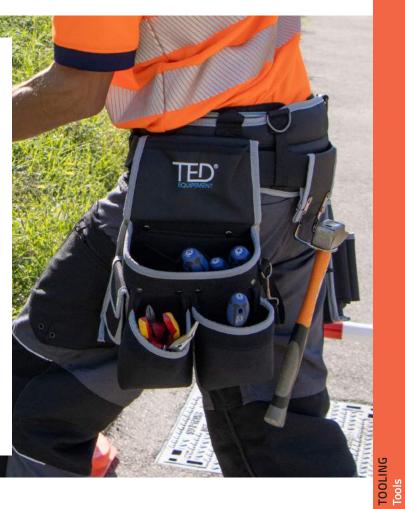
Tool belt

TFD

Multi-purpose solution. With numerous storage pockets and a ring for sledgehammer and hammer. This ergonomic belt provides maximum comfort for mobile technicians.



Tool belt sold empty, without tools

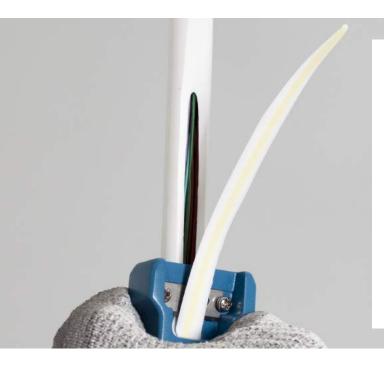




FIBER OPTIC CABLES PREPARATION TOOLS

TEC

Riser cables



Riser Cable Stripper



Product benefits:

+ Lightweight, compact and easy to handle

+ Easy to use: no adjustments required and intuitive intuitive handling

	TED	
-A-		

PN	Designation	Weight
34001	TED [®] Riser Cable Stripper	0.06kg
34002	Spare blades for riser cable - 25 units	0.03kg

Cable Slitter Ø5.8 - 12mm

Product benefits:

- + Increased safety: efficient work with no visible blade blade
- + Increased productivity: fast, perfect cable preparation without risk of damaging inner modules
 + Fits in your pocket: an ideal replacement for the
- kabifix and electrician's knife.
- + Wide range of uses



PN	Designation	Weight
34005	TED® Cable Slitter Ø5.8 - 12 mm	0.15kg
34006	Spare blade kit for TED® cable slitter	0.32kg





Expert's advice

How to choose the right tools without a visible blade?

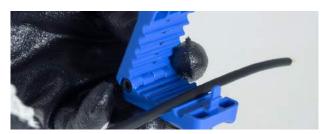
Technological advances have allowed many hand tools manufacturers to create bladeless solutions. Aiming to represent alternatives to knife, all these tools do not have necessarily the same efficiency or ergonomics. To avoid using solutions that do not correspond to standards desired by the telecoms engineer, non visible blade tool must be designed according to four criteria :

SIMPLICITY

To replace the use of the knife and the cutter, a good tool without a visible blade must be easy to use. The simplicity can also be linked to the playful aspect of the solution which will be able to convince its users even more easily.

SPEED

In a current context where the number of worksites is not proportional to the workforce made available, the speed of execution of the telecom technician is essential. The tool without a visible blade must therefore save time considerably in business: for the training of a beginner or for an experienced technician who may have difficulty in accepting a new tool (relearning for example).



EFFICIENCY

Ideally, the solution without a visible blade must allow work as effective as the knife or the cutter. The opening of optical fiber or copper telecom cables must be of quality for that the technician can act precisely.

SECURITY

Each tool without a visible blade must be designed for the engineer's safety. Ergonomic to reduce in first-time musculoskeletal disorders, the blade is hidden to, in a second time, avoid cuts even when carrying it in the trouser pocket. The engineer must never come into direct contact with the blade: incorrect manipulations are thus circumvented, leaving room for comfort and practicality of use.

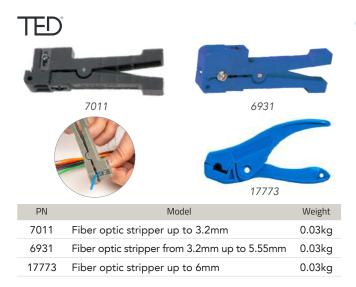
Tools with no visible blade are revolutionising the working methods of telecom engineers for opening copper and fibre optic cables. Despite certain situations not being adapted to a particular tool, this type of inconvenience should not call into question many interventions that go smoothly. On the contrary, it must allow Safety services to trigger a risk analysis for the engineer with the appropriate tool as a solution.

Fibre optics preparation

Optical fiber cable stripper

The stripping pliers enable a circular cut of the micro sheats & loose tube. In order to easily strip the fiber without damaging it. The head is fitted with a spring that provides equal tension throughout the operation.

These pliers are suitable to perform round cuts with diameters diameters ranging from 1.2mm to 6mm. Non-adjustable. They save time and are ideal for novice for novice engineers.



These pliers are versatile. They can be used to perform round and longitudinal cuts, as well as windows on micromodules. Hence they're adjustable these pliers are more suitable for experienced engineers.



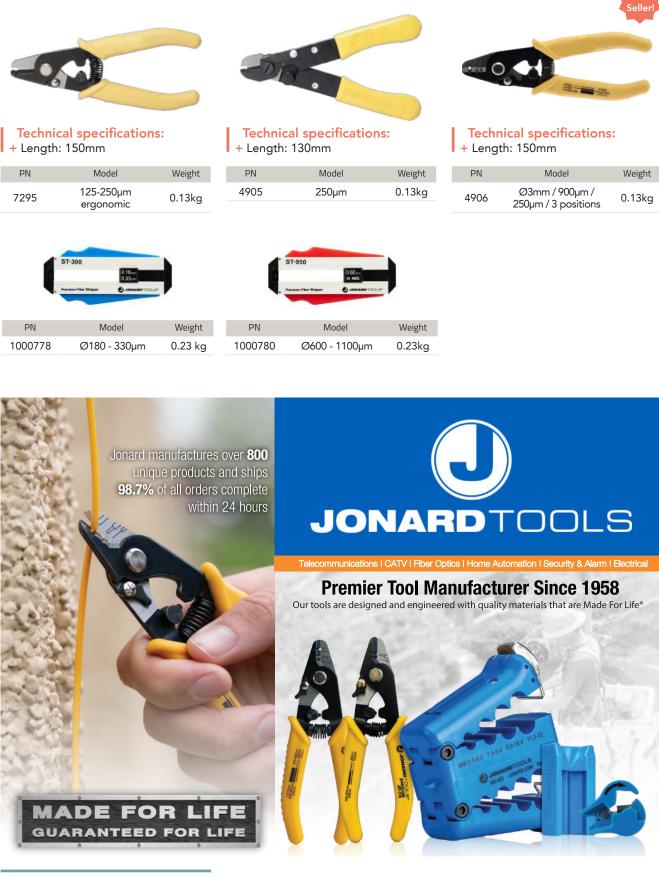


PN	Model	Weight
1000773	Adjustable fiber optic stripper from 1.2mm up to 7.5mm	0.45kg

Fiber optic stripper

The optical fibre, whether in the cable or in the jumper, is protected first by a primary coating, with a tight structure on the glass, and then by several tubes or sheaths. At each stage of network organization or maintenance, appropriate stripping tools are needed to remove the various layers, without damaging the silica, in order to preserve its optical performance.

JONARD TOOLS





Distribution Cable stripper Ø2.9 - 6.8mm

TEL

TOOLING Tools



- + Greater safety: no visible blade
- + Greater efficiency: quick, easy opening
- + Wide range of use



PN	Designation	Weight
16650	Distribution Cable stripper Ø2.9 - 6.8mm	0.06kg
16750	Spare blades for distribution cable stripper Ø2.9 - 6.8mm - 2 units	0.03kg

FUSION SPLICER

Active clad alignment Optical fusion splicer Splice 1 & Cleaver Cliv 1



TED[®] Splice 1 is a 3 axis active alignment fusion splicer. Ideal for last miles customer connection. Super intuitive & easy to use, robust and efficient it's a great cost-efficient solution.

Product benefits:

- + Splicing time: 6sec
- + Heating time: 12 s
- + Special neck strap for working at height
- + 3 years warranty
- + User friendly interface with a large
- LCD 4.3" screen
- + Electrodes life cycle

PN	Designation	Weight (pack)
1001164	Fusion splicer & Cleaver pack TED [®] - Splice 1	6kg

Package contents:

- + TED[®] Splice 1 fusion splicer
- + TED[®] Cliv 1 Fiber cleaver
- + Robust carry case
- + 522 mAh Power supply
- + 230V AC power supply
- + One set of spare electrodes
- + Neck strap





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CHETETE

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Core alignment

Core alignment fusion splicer TED®

Product benefits:

- + Low splicing loss (SM 0,01dB, MM 0,01dB)
- + Core alignment
- + 2 seconds boot & warm up
- + User friendly
- + Special neck strap for working at height
- + 3 years warranty
- + Easy-to-use interface and color touchscreen
- + Drop-proof up to 76cm
- + Electrode life: approx. 5000 arcs

Technical specifications:

- + Save your time: 6 sec splicing time (SM AUTO)
- + 500 splices & heat cycles
- + Robust & reliable with rubber protectors
- + Large 5 inch screen full touch with tempered glass
- + x500 magnification and 180° tilting monitor
- + LED lights



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PN	Designation	Weight
1002010	Fusion splicer & cleaver pack TED [®] Splice core	9.1kg



Cleaver TED®

Optical fiber cleaver TED® CLIV 1

 TED^{\otimes} Cliv 1 is a robust & stable fiber optic cleaver. It's auto-push back system enables a 2 step cutting solution compatible with most type of fiber. Equipped with a long life 24 positions blade up to 50 000 cuts with a high capacity fiber collector.

Product benefits:

- + 24-position cutting blade
- + Cutting angle: 0.5
- + Long blade life up to 50 000 cuts
- + High-capacity fiber collector

PN	Designation	Weight
1001530	Cleaver TED® CLIV 1	0.250kg



Accessories for TED[®] fusion splicer

PN	Designation	Weight
1001531	Cleaver's bladeTED® Cliv 1	0.01kg
1001532	Pair of electrodes TED® Splice 1	0.01kg
1001533	Neck strap TED [®] Splice 1	0.01kg
1001534	Batterie TED® Splice 1	0.150kg
1001535	Power supply TED [®] Splice 1	0.100kg
1001536	Carry case TED [®] Splice 1	2kg

Accessories for Sumitomo fusion splicer

Blade for cleaver FC-6R. FC-7R. FC-8R

Particularly durable, it can perform around 60,000 cuts in 24 positions (depending on use).



PN	Designation	Weight
20002	Blade for Sumitomo cleaver FC-6R. FC-7R. FC-8R	0.040kg

Electrodes for splicers T25e. 39. 55. 57. 66. 71. 72. 400S

Estimated durability up to 6000 splices (electrode life varies according to conditions of use). Sold in pairs.



PN	Designation	Weight
4278	Electrodes for Sumitomo splicers T25e/39/55/57/66/71/72/400S Pair	0.010kg

FUSION SPLICER •

Expert's advice

How to proceed with an optical fusion splicer?

An optical fusion splicer is a mandatory equipment for a fiber engineer. This machine enables to align fiber prior to splicing in order that light can travel from one fiber core to another with the minimum splice loss in between. To limit the splice loss, we share some advices below:

STEP 1: GET YOUR EQUIPMENT READY

All key tools : a fusion splicer, a fiber optic stripper, some wipes, isopropyl alcohol & splice protectors (mechanical or shrinkable). Make sure that prior you begin with the process, all your tools have carefully cleaned to limit contamination that will result in fiber loss.

STEP 2: SELECT THE CONVINIENT SPLICING PROGRAM

Choose the correct program regarding the type of fiber that you're dealing with (single mode, multi mode). *Expert's advice:* We strongly recommand to choose: SM auto: single mode MM auto: multi mode.

STEP 3: STRIP & CLEAN THE FIBER

Strip the fiber on 3 to 4 cm lenght. Clean this stripped zone with a wipe impregnated with isopropyl alcohol up to "swipe" noise.

STEP 4: CLEAVE THE FIBER

Place the fiber into the fiber cleaver, on the correct position. *Expert's advice:* Make sur that the stripped area is well position into to the fiber holder

STEP 5: PLACE THE FIBER INTO THE FUSION SPLICER FIBER HOLDER

Insert the fiber between the v-groove slot & the electrodes, then close the fusion splicer top cover. *Expert's advice:* While your proceed with the fiber insertion, avoid any choc to the fiber or you will need to repeat the cleaving cycle

Prior to set the splicing process, you have to repeat cycle 3, 4, 5 for the 2nd fiber.

STEP 6: PROCEED WITH THE SPLICING PROCESS

To launch the process, close the top cover. If the auto launch is set the splicing will proceed imediatly.

STEP 7: CHECK THE SPLICE QUALITY

3 criteria are used to check the splice quality

- Image quality of the spliced fiber : Correct core alignment, no dust or air bubble
- Estimated loss calculated by the splicer
- Splice tensile strenght resistance test



STEP 8: INSERT THE SHRINKABLE SPLICE PROTECTOR & PROCEED WITH THE HEATING PROCESS

Prior to open the fusion splicer's cover, bring the splice protector close to the stripped aera where the splice has been done. The splice protector as to cover this whole aera. One it has been correctly insert, place it into the the heater & launch the heating process.

STEP 9: STORAGE OF THE SHRINKED SPLICE PROTECTOR INTO THE SPLICE TRAY

One the heating process is done, place the splice protector on the cooling plate. One T° has been cooled, place it the splice tray & proceed with the fiber storage.

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Smoovite



The Smoovite by TED[®] is a real innovation for telecom engineers. It is used to thread the sleeves on the fibre quickly and easily. The tank can hold up to 15 splice protection sleeves with lengths of 40 to 60mm.

Smoovite is a real-time saver. Engineering teams no longer must worry about a lack of precision caused by the cold, a vision problem or other. The Smoovite now allows you to perfectly align the splice protection sleeves to the fibre optic. This innovation also protects engineers: the manipulation between the optical fibre and the splice protection being simplified, the engineer no longer risks sinking a piece of fibre in the hand.

Product benefits:

- + Timesaving: The conical shape allows directing quickly
- the optical fibre in the splice protection
- Compact: 7cm long

Technical specifications:

- + Capacity: 15 splice protection sleeves
- + Length of the splice protection sleeves: 40 to 60mm
- + The reservoir holds the equivalent of a cassette
- + Optimised for Ø2.4 and 2.2mm splice protection

PN	Designation	Weight
34000	Smoovite by TED®	0.06kg



Engineers on the street are pushed to do 200 to 300 splices per day, repeating the same gesture! There can quickly be a loss of time due to a lack of precision linked to a problem of sight, to the cold environment or other difficulties. The Smoovite by TED® allows to insert up to 15 splice protection sleeves in a conical tank. Thus, it is easier to align them in front

Gilles BOONE, electrician for 20 years, inventor of the smoovite easy to align





Splice protectors

Smooves

Product benefits:

- + Clean, high-quality work
- Good shrinkage control
 Does not bubble in the oven when used according to your welder's manual

Technical specifications: + Color: Transparent

- + Minimum processing temperature: 110°C

We recommend 2.4mm smooves compatible with Corning, Commscope and Telenco[®].



				🚖 Indispensable references
	PN	Diameter	Length	UV
	5102	3.0mm	61mm	Bag of 100
	6035	3.0mm	45mm	Bag of 100
	7233	3.0mm	40mm	Bag of 100
*	16476	2.4mm	61mm	Bag of 100
*	16475	2.4mm	45mm	Bag of 100
*	16499	2.4mm	40mm	Bag of 100
*	18116	2.4mm	20mm	Bag of 100
	16432	2.2 mm	61mm	Bag of 100
	11598	2.2mm	45mm	Bag of 100
	10980	2.0mm	40mm	Bag of 100



JOINTERS TENT

Tent & umbrella

Jointers tent

TED[®] by Trigano site tents are the successful result of a collaboration between Trigano and Telenco, combining over 40 years' know-how in camping tents with the expertise of a telecoms specialist.



Tents are used by technicians to protect themselves and their equipment from rain, snow, wind and sun. The materials used in our tents have been carefully tested to guarantee ease of installation and durability.



JOINTERS TENT



Product benefits:

+ Easy opening system

+ Cost efficient solution to protect your engineers and their valuable equipment's (OTDR, Splicing machine) from weather (rain, sun, dust)

- + Protective side cover easy to assemble & remove with a zip system
- + White polyester to provide natural light
- + Self-reflective 25mm band + high-visibility orange colour offers additional security for the engineer's safety
- + 6 inners pockets to store and organise your tools & consumables
- + Custom flocking available to develop your corporate Identity

Technical specifications:

- + Dimensions: 170 x 170cm
- + Cover's Materials: polyurethane-coated Oxford polyester
- + Water penetration resistance: 3000mm
- + Lightweight 210D material's density

PN	Designation	Weight
35004	High-visibility orange tent umbrella	4.4kg
20105	Round weighted parasol stand, black concrete with adapter	14kg



Flocking service available*

Expert's advice -

Ballast bags

Remember to include ballast bags with your tents to guarantee their stability!



5' pop-up worksite tent

Product benefits:

- + Pop-up opening system thanks to its interior fiberglass poles which enable a record-breaking time installation. For starting to enjoy the benefits of this worksite tent without further delay.
- + Access at the front side via a wide opening with zip fastening
- + Made of Oxford polyester fabric (210D PU waterproof 3000 mm) white/yellow that ensures a natural lightening
- + The 25 mm wide retro-reflective strips that separate the white fabric from the yellow one all around the tent offer it a better visibility/protection
- + Steel pegs ensure an additional fixing in case of bad weather (wind, heavy rain etc.)
- + Two steel masts offer the possibility to create an awning

Technical specifications:

- + Tent dimensions: 190 x 190 x 200cm
- + Storage bag dimensions: Ø78 x 7cm
- + Roof, walls and rain fly: polyurethane-coated Oxford polyurethane (210D PU imper 3000mm)
- + Frame: 4 fibreglass poles Ø5mm
- + 6 tent cords / 22 steel pegs / 2 steel poles steel poles (awning)

PN	Designation	Weight
12129	5' pop-up worksite tent yellow	6.5kg
35008	5' pop-up worksite tent orange	6.5ka









Ballast bags

Remember to include ballast bags with your tents to guarantee their stability!

JOINTERS TENT



Optima jointers tent TED[®] by Trigano

Product benefits:

- + Total protection against rain, cold, wind and sun
- + Made of robust, premium-quality materials
- + Two side vents allow better air circulation
- + Retro-reflective strips and high visibility bands allow better visibility/safety of engineers during day or night interventions
- + The tent is ready for use in seconds: quick set-up/ dismantling by one person
- + The partial rear opening of the tent makes it easy to pass through cables & closures
- + Compact carry bag vehicles storage
- + The cleaning of the tent can be carried out by washing with high pressure water
- + The skirt allows both weather protection and an additional ballast base

Technical specifications:

- + Tent dimensions: 180 x 180 x 190cm
- + Carry bag dimensions: 140 x 27 x 27cm
- + 210D oxford top fabric with PVC coating
- M2* -UV treatment (UV30+)
- + Frame: 12.5mm diameter fiberglasspoles
- *M2 Laminated PVC Bottom Canvas/Tarpaulin UV Treatment



PN	Designation	Weight
2010	Optima jointers tent TED® by Trigano	21kg





- Expert's advice –

Ballast bags

Remember to include ballast bags with your tents to guarantee their stability!



FIBER OPTIC DECONTAMINATION

Dry cleaning



TED® Ferrule Cleaning Pen

Dedicated tool for dry cleaning of optical ferrules & adaptors, connectors, pigtails, patch cord. Extendable tip to allow cleaning on already installed adaptors in patch panel.

IFD

đ

Flar Oyte Chan

Product benefits:

- + Extendable end for easy drawer access high density
- + Effective against dust and oil

Technical specifications:

- + Fits 2.5mm ferrules: SC/FC/ST
- + Up to 600 cleaning cycles

PN	Model	UV
34004	2.5mm	Unit
19546	1.25mm	Unit

TED[®] cleaning swab

Cleaning rods can be used with isopropyl alcohol or degreasers.





PN: 30064



PN: 30065

PN	Application(s)	UV	Weight
30064	1.25mm ferrules (LC/MU)	50	0.040kg
30065	2.5mm ferrules (SC. ST. PC)	50	0.040kg

Alcohol dispensers



PN	Model	Weight
11274	Stainless steel pump - 120ml	0.063kg
7013	240ml	0.049kg

Dry wipes

Non-linting dry wipes are used for all optical fiber cleaning applications.

erKleen	STICKLERS	HIMTECH
References of the second secon	CLEAN WIPES	

PN: 5982

PN: 4803

PN	Model	UV	Weight
5982	FiberKleen™	Box of 50	0.05kg
4794	CleanWipes	Box of 90	0.07kg
4803	KimWipes	Box of 280	0.16kg

PN: 4794

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TOOLING Tools

Cable & Fiber Decontamination Kit



This kit contains everything you need to ensure complete, fast and efficient cleaning of fiber optic networks.

Technical specifications: Kit contents:

- + TED[®] tool bag with shoulder strap
- + 1L isopropyl alcohol bottle
- + 240ml alcohol dispenser bottle
- + Electro-Wash ES810E spray degreaser
- + Box of 280 dry wipes for FO cleaning
- Kimwipes EXL

Product benefits:

- + Compact
- + All-inclusive package

PN	Designation	UV
18397	Cable & Fiber Decontamination Kit	Unit

Fusion splicer Maintenance Kit



This kit contains all you need to maintain your fusion splicer.

Technical specifications:

Kit contents:

- + TED[®] tool bag with shoulder strap
- + 240ml alcohol dispenser bottle
- + Box of 50 TED[®] cleaning swabs for camera & v-groove
- + Box of 50 TED[®] cleaning swabs for splicer holders
- + Precision tweezers, 45° angle 155mm
- + Flat brush 25mm
- + Dusting blow bulb

Product benefits:

- + Compact
- + All-inclusive package

PN	Designation	UV
1001917	Fusion splicer Maintenance Kit	Unit

MTP/MPO cleaning pen



CLEANSSETTE cleaning cassette



The cleaning cassette enables dry decontamination of all simplex

PN: 14227

This pen can be used to clean optical surfaces, either directly or through a connector.

Technical specifications:

- + Suitable for MTP and MPO connectors
- + Up to 600 cleanings

Product benefits:

- + Easy to use
- + Fast, reliable cleaning: just 1 click
- + Robust and durable

PN	Designation	Weight
16439	MTP/MPO cleaning pen	0.12kg

Technical specifications:

+ Up to 420 cleaning cycles

PN: 14226

+ Antistatic

connectors.

- + Connections: SC, LC, FC, MU, MT, ST, MPO
- **Product benefits:**
- + Compact
- + Ergonomic: one-handed operation

PN	Designation	Weight
14226	Cleanssette cleaning cassette	0.15kg
14227	Refill for CLEANSSETTE cassette	0.05kg



Expert's advice

How to clean all optical connection points?

WHAT ARE THE DIFFERENT TYPES OF FIBER OPTIC CONTAMINATION?

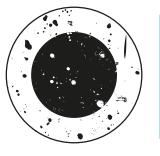
Contamination of the optical fibre, regardless of its origin can lead to an active equipment system failure. A single particle, even a microscopic one.can cause a major attenuation of optical connections.

There are different types of contamination that can affect the end of a connector:

- Dry contamination: dust,
- Liquid contamination: mineral oils, sebum from hands, gel, resin, grease on cables...
- Contamination with alcohol residue, in particular isopropyl alcohol, which is supposed to clean the fiber, could also contaminate it if too much is used.

Several methods for optical fiber cleaning are available, but requires the correct tools to be carried out.





WET & DRY CLEANING METHOD

This combo method is an easy & efficient solution to clean optical fiber & connectcors.

Left side image represent an optical fiber connector taken with a microscope. It's clearly saturated with dust related to it's manipulation. It has to be clean to ensure a limited loss & good signal quality.

Below, an introduction to each step of the Wet & Dry optical fiber cleanning method. We will consider a dry contamination.

1st step: Begin with the wet cleaning method of the otpical fiber connector

We strongly recommand to being with a wet cleanning solution. Few options available:

- A water based solution in order to limit the risk for telecomunication engineer's safety related to term alcohol use.
- Some ysopropil alcohol
- Use a cleaning pen adapted to the ferule type (1.25 or 2.5mm, or MPO)
- Non xxx cleaning wipes alredy imprenated with alcohol or not to use the previous suggested option.
- Telecomunication engineers will only need to impregnated the wipes and to swipe the connector in a one time action. Please, avoid multiple actions hence it could bring more dust.

2nd step: Insepection of the connector's ferule

 2^{nd} step is the connector's ferule inspection thanks to an optical fiber microscope. This tool will help the engineers to make sure that a maximum of dusts & auther contamination has been removed. Or if an extra cleanning cycle is required. Please clean the microscope adapter after each use to prevent more contamination. 3rd step: Dry cleanning

To proceed with this last step, please use a dry cleanning pen.

 Dry connector cleanning pen has to be insert into the connector to reach the ferule. One the ferule has been reach, press the cleanning pen up to the "click" to connect the cleanning tip with the full ferule surface.

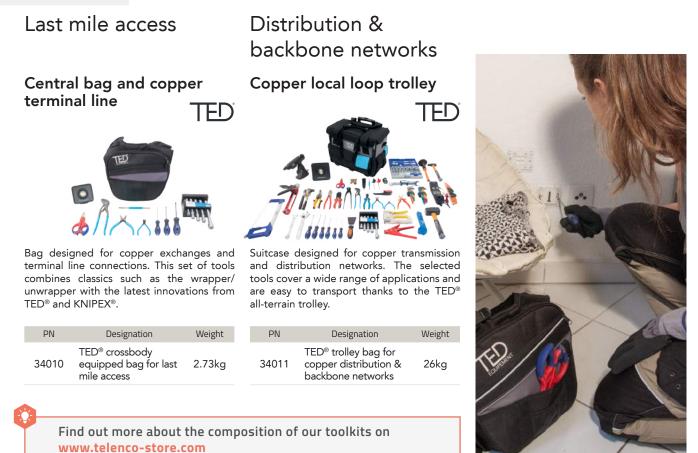
This last step will ensure that all liquids have been removed from the ferule. We strongly recommand to do a microscope check & repeat a dry cleanning cyle if its required.



TOOLING Tools

COPPER CABLES PREPARATION TOOLS

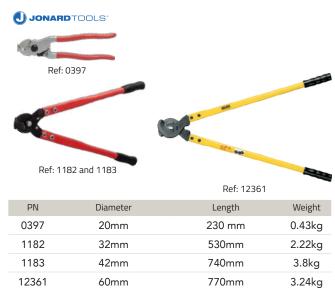
Toolkits



Cable cutters

Copper cable cutters

Copper cable cutters



Ratchetting copper cable cutters



Ref: 1184

High cutting capacity in a small footprint.

-		-	
PN	Diameter	Length	Weight
1185	32mm	250mm	0.67kg
1186	52mm	280mm	0.85kg
1184	60mm	420mm	3kg

Pintel 3 crimping plier

Separates the carrier from the cable.



PN	Designation	Weight
1187	Pintel 3 crimping plier	0.90kg



Insertion & crimping tools

Insertion tools for copper wires

24	53	0398 0399 6803 7240 4086	4038
F	PN	Model	Weight
24	453	OSA2	0.06kg
03	398	OSA3	0.06kg
03	399	Polyvalent POUYET	0.08kg
68	803	Polyvalent type POUYET	0.07kg
72	240	Pour réglettes série 110 BIX	0.10kg
4(086	Pour réglettes type KRONE	0.08kg
4(038	INFRA+	0.12kg

 PN: 34003
 PN: 32078

 PN
 Designation
 Weight

 34003
 Scotchlock plier for copper connectors TED®
 0.13kg

 32078
 Insulated TED® Scotchlock plier for copper
 0.30kg

connectors

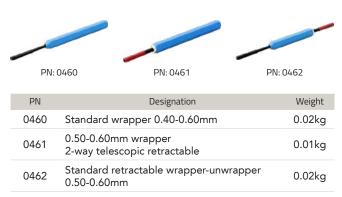
Scraper pliers



Strip the copper garter.

PN		Designation	Weight
0888	Scraper pliers		0.03kg

Wrapper / Unwrapper





HAND TOOLS

Screwdrivers



-1

Weight

0.46kg

0.54kg

Screwdriver set

Product benefits: + Magnetic head

+ Ergonomic handle

Set of 6 screwdrivers:

+ 3 flat screwdrivers: 3 - 5.5 - 6.5 + 3 Phillips screwdrivers: PH0 - PH1 - PH2

Set of 8 screwdrivers:

6 screwdrivers

8 screwdrivers

ΡN

30040

30041

+ 4 flat screwdrivers: 3 - 4 - 5 - 6.5

Model

+ 2 Phillips screwdrivers: PH1 - PH2

+ 2 Pozidriv screwdrivers: PZ1 - PZ2



PN: 30040



PN: 30041

Torx screwdrivers

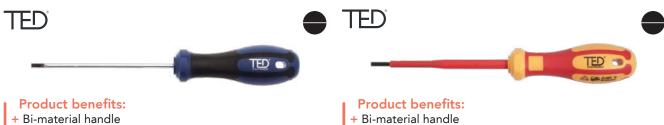


PN	Dimensions	Weight	PN	Dimensions	Wei
30032	T5 x 60	0.03kg	30035	T15 x 80	0.04
30033	T6 x 60	0.03kg	30031	T20 x 100	0.04
30034	T8 x 60	0.03kg	30036	T25 x 100	0.05
30030	T10 x 75	0.04kg	30037	T30 x 115	0.05



+ Magnetic head

Flat screwdrivers



- + Magnetic head

PN	Dimensions	Weight	PN	Dimensions	Weight
30006	2.5 x 75	0.03kg	30007	6.5 x 150	0.15kg
30001	3 x 100	0.04kg	30005	8 x 150	0.20kg
30002	4 x 100	0.05kg	30008	10 x 200	0.25kg
30003	5 x 125	0.10kg			

+ Bi-material handle

- + Magnetic head + 1000V VDE insulated



PN	Dimensions	Weight
32051	2. 5x 75	0.04kg
32073	3.5 x 100	0.06kg
32074	4.5 x 125	0.07kg
32075	5.5 x 125	0.09kg
32054	6.5 x 150	0.11kg
32055	8 x 175	0.17kg

Pozidriv screwdrivers



Product benefits:

+ Bi-material handle

+ Magnetic head

30012

30013

PN	Dimensions	Weight
30020	PZ0 x 75	0.04kg
30021	PZ1 x 100	0.09kg
30022	PZ2 x 125	0.13kg
30023	PZ3 x 150	0.18kg

PH2 x 125

PH3 x 150



Product benefits:

+ Bi-material handle

+ Magnetic head + 1000V VDE insulated 🖄 🔂 🏠 1000V

PN	Dimensions	Weight
32059	PZ0 x 60	0.04kg
32060	PZ1 x 80	0.06kg
32061	PZ2 x 100	0.09kg

Phillips screwdrivers



0.12kg

0.18kg

32057

32058

PH1 x 80	0.06kg
PH2 x 100	0.09kg
PH3 x 150	0.17kg

Weight

0

Nippers & diagonal cutters

Ergonomic cutting pliers



Product benefits:

- + Ergonomic: the angle between the beak and temples means you can work without straining your wrist (less risk of RSI)
- + Greater comfort: bi-material elastomer temples
- + Longer life: chrome-plated finish and inductionhardened cutting edges

PN	Length	0		Branches	Weight
32076	180mm	2.7mm	2.3mm	Bi-material	0.27ka

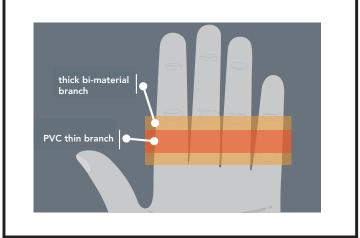


Expert's advice

Choose the right pliers to reduce Musculoskeletal Disorders

Repeated cuts are frequently a source of MSDs of the wrist. In fact, when cutting, the pliers exert pressure on the fingers. The more the support surface is restricted, the more traumatic the pressure will be for the fingers. This is why we advise you:

- To favour bi-material temples over temples with thin PVC
- To adapt the type and size of the grip to the material that needs to be cut





Ergonomic Straight Half-Round Pliers



Product benefits:

- + Ergonomic: the angle between the nose and the grip
- allows you to work in sparing the wrist (less risk of MSDs)
- + More comfort: bi-material elastomer temples

+ Extended life: chrome finish and induction-hardened cutting edges



PN	Length	0		Branches	Weight
31027	180mm	2.7mm	2.3mm	Bi-material	0.23kg

Pliers

Ergonomic Straight Half-Round Pliers

Product benefits:

- + Ergonomic: the angle between the nose and the grip
- allows you to work in sparing the wrist (less risk of MSDs)
- + More comfort: bi-material elastomer temples
- + Extended life: chrome finish and induction-hardened cutting edges





TED

HAND TOOLS

Water Pump Pliers with Overlapping Branches



Pincers



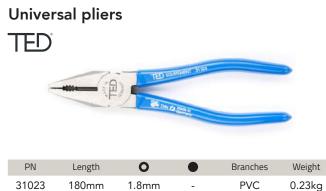


PN	Length	Branches	Weight
31010	250mm	-	0.39kg



Stripping pliers Stripping pliers with spring Stripping pliers 1000V VDE TED TED ΡN Length Branches Weight ΡN Length Branches Weight 31022 PVC 0.15kg **Bi-material** 160mm 32065 160mm 0.16kg

Universal pliers



Universal pliers 1000V VDE



Nippers



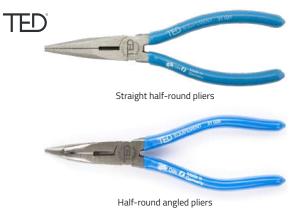
PN	Length	0		Branches	Weight
31002	145mm	1.8mm	-	PVC	0.14kg
31003	160mm	2mm	-	PVC	0.19kg
31004	180mm	2.5mm	-	PVC	0.22kg

Nippers diagonal cutting 1000V VDE



Long nose pliers

Flat long nose pliers



PN	Length	Туре	Branches	Weight
31021	160mm	Right	PVC	0.11kg
31031	200mm	Right	PVC	0.16kg
31020	160mm	Angled	PVC	0.11kg
31030	200mm	Angled	PVC	0.16kg

Long nose pliers 1000V VDE



h	PN	Length	Type	Branches	Weight
1	32067	160mm	Right	Bi-material	0.14ka
	32064		5		- 5
	32064	160mm	Angled	Bi-material	0.20kg



Angled socket wrench VDE



PN	Length	Ø cu cable - alu	Branches	Weight
32066	160mm	16mm	Bi-material	0.23kg

Spanner & wrenches

Mixed spanners

Set of mixed spanners





Set composition:

- + Set of 6 wrenches: Ø8 10 12 13 17 22mm
- + Set of 16 wrenches : Ø6 7 8 9 10 11 12 13 -
- 14 15 16 17 18 19 22 24mm + Set of 25 wrenches: Ø6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 -14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26
- 27 28 30 32mm

PN	Designation	Weight
32068	Set of 6 chrome-plated combination wrenches Ø8 to 22mm	1.30kg
32069	Set of 16 chrome-plated combination wrenches Ø6 to 24mm	3.50kg
32041	Set of 25 chrome-plated combination wrenches Ø6 to 32mm	5.20kg

Mixed spanner

3			ESUR	Deven		\bigcirc
PN	Diameter	Weight		PN	Diameter	Weight
32028	6mm	0.02kg		32037	16mm	0.12kg
32029	7mm	0.02kg		32024	17mm	0.13kg
32020	8mm	0.02kg		32034	18mm	0.14kg
32030	9mm	0.02kg		32025	19mm	0.15kg
32021	10mm	0.04kg		32035	20mm	0.16kg
32031	11mm	0.05kg		32036	21mm	0.19kg
32032	12mm	0.06kg		32026	22mm	0.20kg
32022	13mm	0.07kg		32038	24mm	0.30kg
32033	14mm	0.10kg		32019	27mm	0.37kg
32023	15mm	0.11kg		32027	32mm	0.57kg

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Various keys

Technical plier set

TED



Product benefits:

- + Enables access to building services areas
- + Enables acces to multiple type of enclosures
- & street cabinets (copper, fiber)

PN	Designation	Weight
0950	4 in 1 technical plier set	0.21kg

Wrench Adjustable



PN	Length	Weight
1000504	105mm	0.14kg
1000505	200mm	0.25kg
1000507	250mm	0.43kg
1000517	300mm	0.71kg
1000518	375mm	1.50kg

Pipe wrench

The open-end pipe wrench provides in-depth access to nuts, even on long threaded rods. The 12-sided design allows a smaller angle of recovery, so you don't get stuck when tightening or loosening.

Set of angled socket wrench spanners





Angled socket wrench



Set composition:

- + Set of 5 wrenches: Ø8 10 12 13 17mm
- + Set of 11 wrenches : Ø8 10 11 12 13 14 16 17

- 18 - 19mm

PN	Designation	Weight
32070	Set of 5 angled socket wrench spanners Ø8-17mm	0.60kg
3585	Set of 10 angled socket wrenches 6x12 flats Ø8 to 19mm	2.23kg

PN	Diameter	Weight	PN	Diameter	Weight
32009	6mm	0.09kg	32004	15mm	0.23kg
32010	7mm	0.09kg	32005	16mm	0.24kg
32001	8mm	0.09kg	32006	17mm	0.25kg
32011	9mm	0.09kg	32015	18mm	0.26kg
32002	10mm	0.09kg	32007	19mm	0.27kg
32012	11mm	0.13kg	32016	20mm	0.28kg
32013	12mm	0.16kg	32017	21mm	0.29kg
32003	13mm	0.18kg	32008	22mm	0.30kg
32014	14mm	0.20kg			

Head lamp & projectors

The concept of a headlamp, with or without a rear housing, is now a matter of course in our business. By freeing up the hands of technicians, any activity can be carried out thanks to a beam of light that is always aimed in the direction of vision. The headlamp is a factor of efficiency and safety in the workplace. That's why we're constantly expanding our range of innovative, high-quality products that make work more comfortable.



1500 lumen compact projector with TED®



- **Product benefits:**
- + Magnetic mounting in and/or on a tripod
- + Spotlight with intensity control to adjust the battery life
- + Excellent value for money

Technical specifications:

- + Output: 250 to 1500 lumens
- + Dual mounting system: magnetic and tripod for proximity and area lighting

PN	Designation	Weight
1001433	1500lm compact magnetic projector with dimmer switch - TED®	0.58kg
1001434	TED [®] spotlight mounting accessory for 2m SCANGRIP [®] tripods	-
1001249	0.9 to 2m tripod for SCANGRIP®/TED® projectors	2.5kg

Sledge hammers

Steel weight TED TED Designation Weight ΡN 90cm TED® sledge hammer with fiber glass 1002052 4.5kg handle

Cold chisel

Cold Chisel TED[°]



PN	Designation	weight
1000782	TED® Cold Chisel - 300mm	0.480kg
1000804	TED® Shock-absorbing Cold Chisel - 250mm	0.550kg
1000805	TED® Shock-absorbing Cold Chisel - 300mm	0.620kg

Sledge hammer



PN	Designation	Weight
1002050	25cm TED [®] mini sledge hammer with fiber glass handle	1.5kg

Pointed Chisel TED[°]



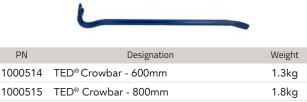
PN: 1000806

PN	Designation	Weight
1000783	TED [®] Pointed Chisel - 300mm	0.450kg
1000806	TED [®] Shock-absorbing Pointed Chisel- 300mm	0.530kg

Stripping pliers

Crowbar





Heel Point Crowbar

Heel Point Crowbar TED

PN	Designation	Weight
1000511	TED® Heel Point Crowbar - 1.5m length	8.30kg
1000512	TED® Heel Point Crowbar - 2m length	13kg
1000513	TED® Heel Point Crowbar - 2.5m length	17kg

Glue gun & glue sticks

Professional glue gun 18-200W

This high-temperature gun (195°C) uses 11/12mm-diameter glue sticks. It's an efficient glue gun, especially for interior work. With a short heat-up time of two minutes, it's quickly ready for gluing operations on a wide range of materials, such as wood, plastic, glass and others, using glue sticks.

Product benefits:

- + Professional bonding
- + Precision nozzle
- + Ergonomic handle
- + Easy-to-handle trigger for consistent glue production
- + Reliable and durable

PN	Designation	Weight
32071	Professional glue gun 18-200W	0.64kg

Transparent glue sticks

Versatile TED[®] transparent glue stick. Works with electric glue guns.



PN	Glue stick dimensions	UV	Weight	
0508	Ø12mm x 20cm	Bag	1kg	

TED



TOOLKITS

Toolkits

Fibre Splicers

Meticulously designed to meet the demands of modern telecommunication installations, ensuring reliable and efficient network connectivity. Whether you're a seasoned professional or a beginner in the field, this comprehensive kit equips you with the essential tools and equipment to achieve precise and high-quality fibre splicing results.

Fibre Splicer's Toolkit		TED	Fibre Spli Custome	icer's Toolkit r Connexion	TED
PN	Designation		PN	Designation	
PN	Fibre Splicer's Toolkit TED® Backpack		PN	Fibre Splicer's Toolkit - Customer Conne TED® Backpack	ection
PN	Fibre Splicer's Toolkit TED® Tool Bag		PN	Fibre Splicer's Toolkit - Customer Conne TED® Trolley Backpack	ection
PN	Fibre Splicer's Toolkit TED® Trolley Backpack		PN	Fibre Splicer's Toolkit - Customer Conne TED® Crossbody Bag	ection

Fibre Jointers

The toolkit includes various essential tools and instruments that aid in preparing, splicing, and testing fibre optic cables.

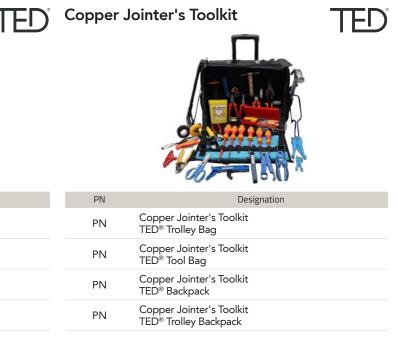




PN	Designation	
PN	Fibre Jointer's Toolkit TED® Trolley Bag	
PN	Fibre Jointer's Toolkit TED® Tool Bag	
PN	Fibre Jointer's Toolkit TED® Backpack	
PN	Fibre Jointer's Toolkit TED® Trolley Backpack	

Copper Jointers

This specialised collection of tools and equipment is designed for professionals who work with copper cables.



CABLE LABELING & IDENTIFICATION

Label printers

M210 labeller + label pack

- **Technical specifications:**
- + Easy to use
- + QWERTY keyboard
- + Large display
- + Keyboard shortcuts
- + Print preview
- + Power supply: 6 AAA batteries (not included)

PN	Designation	Weight
20379	Pack BRADY M210 labeller + 10 boxes B-427 38.10mm B/W transparent labels	1.64kg
20380	Pack BRADY M210 labeller + 10 boxes B-499 19.05mm B/W labels	1.52kg
19364	Pack BRADY M210 labeller + 10 boxes of B-499 12.70mm B/W labels	1.02kg
19365	Pack BRADY labeller M210 + 5 boxes B-499 19.05mm B/W + 5 boxes B-427 38mm B/W-T	





Identify each cable or component

M210

- Easy to use and transport
- Ready-to-use cartridges
- Label widths from 6 to 19.05mm
- 9 materials 70 part numbers

With the support and expertise of Brady, Telenco is able to offer complete solutions for the printing and identification of Telecom Datacom cables.

M610

- High-quality 300 dpi printing
- Connectivity: USB 2.0 and wifi (optional)
- Automatic label calibration with Smart Cell technology
- Pre-cut labels and continuous strips up to 50.8mm wide



BRADY # Telenco



Labels

Labels





PN: 1000982

PN	Material	Dimensions	Printer compatibility	UV	Weight
12587	B-499	19.05mm (4.88m)	BMP21/M210/M211	Continuous roll	0.08kg
13596	B-427	38.10mm (4.30m)	BMP21/M210/M211	Continuous roll	0.08kg
14859	B-595	9.53mm (6.40m)	BMP21/M210/M211	Continuous roll	0.07kg
15090	B-499	9.53mm (4.88m)	BMP21/M210/M211	Continuous roll	0.07kg
15091	B-499	12.70mm (4.88m)	BMP21/M210/M211	Continuous roll	0.07kg
15092	B-595	19.05mm (6.40m)	BMP21/M210/M211	Continuous roll	0.08kg
16140	B-109	76.20 x 19.05mm	BBP11/BBP12	Box 1000	0.53kg
1000980	B-109	19.05 x 76.20mm	M710	Continuous roll	0.08kg
1000982	B-109	19.05 x 76.2mm	M611/M610/M710	Box 1000	0.53kg
1000983	B-7598	73.8 x 49mm	M611/M610/M710	Box 1000	0.53kg

Ribbons



PN: 15465



PN: 1001020

PN	Material	Dimensions	Printer compatibility	Color	Weight
14815	R4300	50.8mm x 46m	BMP71/M710	Black	0.140kg
15464	R6010	50.8mm x 22.8m	M611/BMP61/M610	Black	0.100kg
15465	R4310	50.8mm x 22.8m	M611/BMP61/M610	Black	0.100kg
1001016	R4300	50mm x (45.72m)	M710	Black	0.140kg
1001020	R4400	50.8mm x 22.8m	M611/M610	White	0.100kg
1001021	R6010	50.8mm x 22.8m	M611/M610	Black	0.100kg

Label printers

							BMP51 Label printer		
PN	Designation	Weight	PN Designation Weight		PN	Designation	Weight		
20095	BRADY M210	0.79kg	20099	Y M211	0.76kg		BMP51 labeller +		
20096	labeller alone BRADY M210 labeller with ba + charger + cas	ttery 2.64kg	20099 labeller alone 0.76kg BRADY M211 labeller 20100 + external battery + 7.4kg charger + case 7.4kg		1614	1 BradyWorkstation basic software	1.4kg		
		M210 Lab	ol printor	M211 I	M211 Label printer		DMDE1 Lobal printer		
		Simple and			and individual		BMP51 Label printer Simple and simultaneous,		
Kaybaar	4	AB					individual and multiple advanced		
Keyboard		6 AA batteries		No keyboard lithium-ion battery,			QWERTY 8 AA batteries - Rechargeable battery -		
Batteries		or rechargeable bat	tery (not included)	internal, non-removable			AC adapter		
Print speed Impression in stand-alone mode (Without PC connection)		10 (mm/s) Autonomous		15,24 (mm/s) Bluetooth smartphone			25.40 (mm/s) Autonomous & peripheral		
Connecti	ivity options	-		*			Optional:		
Cutter		Manual cutting Straight cut With label retention		Automatic cutter With label retention			Manual cutting Between labels or at the end of the job Printing With label retention		
Flash me	mory	-		-			48 MB - Up to 25,000 labels		
Bar code	•	Code 39 and 128, Datamatrix and Code QR		Code 39 and 128, others via application		lication	Code 39 and 128, others via application		
Dimensio	ons (WxHxD)	125 x 50 x 235mm		101 x 66 x 137mm			155 x 90 x 255mm		
Composi	ition	PN W5010: M210 only PN W5010-UK: Rigid case - Battery in lithium-ion - Power cable		PN W5011: M211 only PN W5011-UK: hard case - external battery - power cable - belt clip		-	Hard case - Lithium-ion battery USB cable - Mains adapter - Continued by Brady Workstation - Cartridge MC1-1000-422		
Max widt		19.00	mm	19.00mm			38.10mm		
Max widt (impressi		16.00	mm	15.75mm			36.00mm		
Min widt	,	6.40	mm		6.40mm		6.40mm		
Supported materials		More than 60 star continuou			standard referen nuous sleeves	nces:	More than 200 standard references: webs and labels pre-cut		
Label col	lours	$\bigcirc ($	$\overline{}$		$\bigcirc \bigcirc$				
Screen		Monochrome	LCD screen		-		Monochrome LCD sc	reen	
Print reso	olution	203	dpi		203 dpi	_	300 dpi		
Text size		6-40	•		6-40 pt	_	4-102 pt		
	ed symbols	215 symbol		Selon le logiciel utilisé			405 symbols included		
Guarantee		2 years		2 years			2 years		



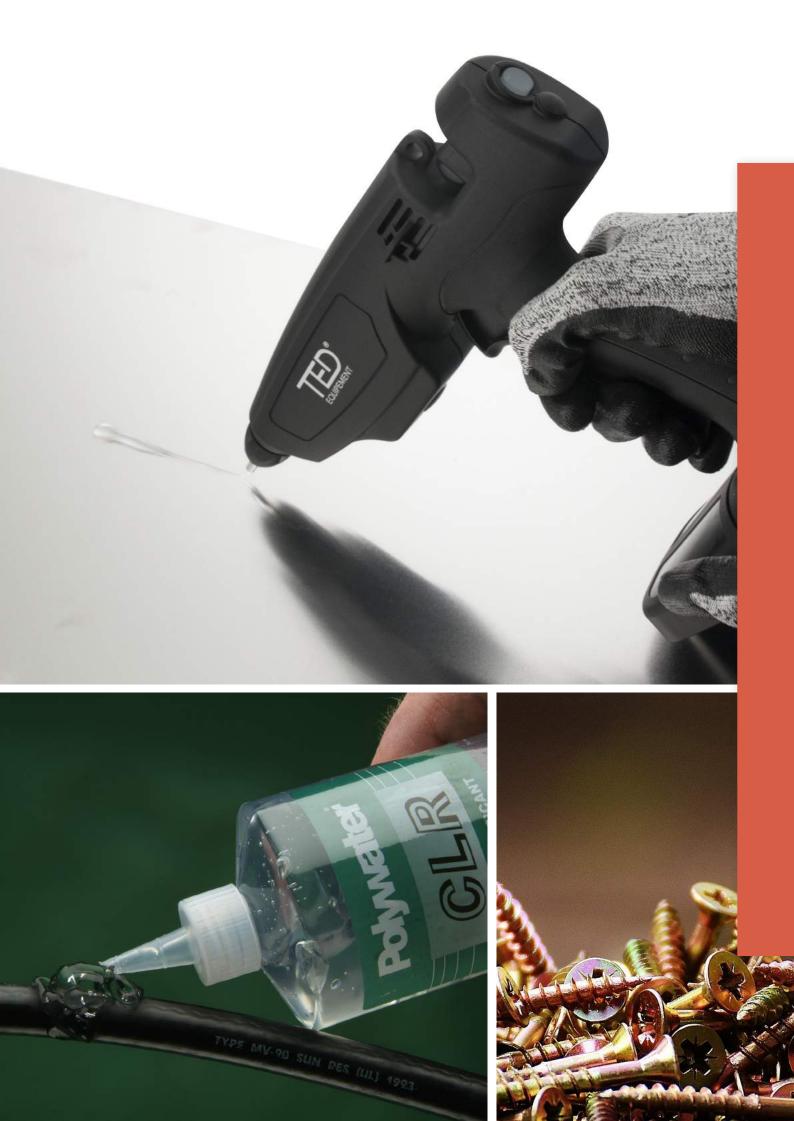
M611 BRA	Label printer DY.		M610 Label printer BRADY.			M710 Label printer BRADY:			
PN	Designation	Weight	PN	Designation	Weight	PN	Designation	Weight	
17367	M611 labeller + Wifi + BradyWorkstation basic software	1.6kg	1000855	Brady M610 Labeller with QWERTY key- board and Bluetooth	1.5kg	1000854	M710 labeller + BradyWorkstation basic software	6.4kg	
	M611 Label printer	r		M610 Label printer		1	M710 Label printer		
	Multiple and linked			Multiple and linked		S	imple and simultaneous,	ad	
	No			QWERTY		individual and multiple advanced QWERTY			
 Po		lantar		Rechargeable battery		Rechargeable battery - AC adapter			
 Rechargeable battery - AC adapter				Mains adapter		Kecha			
	33.80 (mm/s)			33.80 (mm/s)			38.10 (mm/s)		
	Peripheral		Autonomous & peripheral			Autonomous & peripheral			
	809		2.0 F	Optional:	?		()		
	Automatic cutter			Manual cutting			Automatic cutter		
	-		5	12 Mo - Up to 4500 labels		200 N	10 - Jusqu'à 4500 étiquet	tes	
Coc	de 39 and 128, others via sc	oftware	Code 3	39 and 128, others via soft	ware	Code 39 and 128, others via software			
	113 x 115 x 279mm			107 x 106 x 328mm		241 x 116 x 332mm			
key with p suite	le - AC power cable - Wrist product information - Brady - Label roll M6-97-488 - Inl 61-R4310 Ink ribbon M61-R	Workstation k ribbon	Rigid case – Battery - Mains adapter - USB Cable - Wrist Strap - Brady Suite Workstation - Roll of labels PTL-19-423 Ink ribbon M61-R6010			Hard case - NiMH battery - AC adapter - USB cable - Brady Workstation Suite - Cleaning kit - Adapter for TLS2200/HandMark [™] label rolls - Consumables M7-31-423; M7C-2000-595-WT; M7-R6000			
	50.80mm			50.80mm			50.80mm		
	48.76mm			48.76mm			45.97mm		
	6.40mm			6.40mm			6.40mm		
continuo	ore than 800 standard references and the standard references and the standard references and the standard stan Standard standard stan	olls and bulk	More than 8000 standard references: sleeves continuous, die-cut label rolls and wholesale packaging, labels and bands personalised			re	Over 1,300 references: olls of continuous labels, e-cuts and bulk packaging		
\bigcirc			$\bigcirc \bigcirc $						
	LCD Colour touch screer	n		Colour touch screen		L	CD Colour touch screen		
	300 dpi			300 dpi			300 dpi		
h	n the express labels applica	ation		4-174 pt			4-174 pt		
h	n the express labels applica	ation		450 symbols included		More than 500 symbols included			
			2			-			

² years

2 years

2 years

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Tooling

Consumables

CABLE INSTALLATION

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CABLE PULLING

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CABLE INSTALLATION

Glue sticks

Transparent glue sticks



Versatile TED $^{\otimes}$ transparent glue stick. Works with electric glue guns (see p.93).

PN	Glue stick dimensions	UV	Weight
0508	Ø12mm x 20cm	Bag	1kg

Cable ties

A6.6 cable ties

Highly UV-resistant $\mathsf{TED}^{\scriptscriptstyle (\! 8\!)}$ cable ties for indoor and outdoor applications.

Technical specifications:

- + Packaging: bag of 100 cables ties
- + Type of closure: simple





PN 🔴	Dimensions	Weight
0490	100 x 2.5mm	0.03kg
0403	150 x 3.6mm	0.08kg
0404	190 x 4.8mm	0.15kg
6679	200 x 2.5mm	0.06kg
2007	200 x 3.6mm	0.10kg
2821	200 x 7.6mm	0.28kg
4468	250 x 7.6mm	0.43kg
0491	280 x 4.8mm	0.21kg
1595	300 x 3.6mm	0.15kg
0492	360 x 4.8mm	0.26kg
5214	360 x 7.6mm	0.52kg
2825	630 x 7.8mm	1.02kg
17884	762 x 9mm	1.44kg

PN 🔵 Dimensions Weight 0493 100 x 2.5mm 0.03kg 0494 150 x 3.6mm 0.08kg 0495 190 x 4.8mm 0.13kg 1671 200 x 2.5mm 0.06kg 2094 200 x 3.6mm 0.1kg 0496 280 x 4.8mm 0.21kg 1675 290 x 3.6mm 0.16kg 1673 360 x 4.8mm 0.25kg 0497 365 x 7.8mm 0.52kg

PA6 double lock cable ties



Technical specifications:

- + Packaging: bag of 100 cable ties
- + Closure type: double

PN 🔴	Dimensions	Weight
0377	180 x 9mm	0.25kg
0378	260 x 9mm	0.64kg
0379	360 x 9mm	0.51kg





These removable cable ties can be used for both indoor and outdoor applications, thanks to their UV resistance.

Technical specifications:

- + Packaging: bag of 100 cable ties
- + Closure type: detachable notched

PN 🔴	Dimensions	Diameter	Weight
2822	187 x 9mm	Ø10-42m	0.38kg
2823	251 x 9mm	Ø20-62m	0.48kg
2824	344 x 9mm	Ø20-92m	0.64kg





Cable clips

Cable clip

TED® cable clip for round cables. Cable clip in UV-resistant polypropylene. Hardened steel spikes with electro-galvanized surface treatment. Salt-air resistant.

TED	F										
PN 🔴	Diameter	UV	Weight		Diameter	UV	Weight	PN 🔵	Diameter	UV	Weight
1000419	Ø3.5mm	100	0.12kg	19214	Ø3.5mm	100	0.12kg	0543	Ø4mm	100	0.09kg
1000413	Ø4mm	100	0.09kg	0542	Ø4mm	100	0.09kg	0444	Ø5mm	100	0.09kg
1000414	Ø5mm	100	0.1kg	0445	Ø5mm	100	0.1kg	0446	Ø6mm	100	0.1kg
1000415	Ø6 mm	100	0.1kg	0447	Ø6mm	100	0.1kg	0448	Ø7mm	100	0.12kg
1000416	Ø7mm	100	0.12kg	0449	Ø7mm	100	0.12kg	0450	Ø8mm	100	0.13kg
1000417	Ø8mm	100	0.13kg	0451	Ø8mm	100	0.13kg	2376	Ø10mm	100	0.3kg
1000418	Ø10mm	100	0.17kg	4277	Ø10mm	100	0.17kg	2371	Ø12mm	100	0.13kg
1000409	Ø12mm	100	0.13kg	4417	Ø12mm	100	0.13kg	0544	Ø14mm	100	0.29kg
1000411	Ø14mm	50	0.32kg	2372	Ø14mm	100	0.32kg	0545	Ø16mm	25	0.32kg
1000412	Ø16mm	25	0.32kg	7778	Ø16mm	100	0.32kg	0546	Ø18mm	60	0.37kg

Wall plug cable clip

Cable holder + dowel for clean, aesthetic wall mounting of flat, round or figure-8 copper pair, fiber optic or video cables.

Technical specifications:

+ Installed every 30 cm + Polyamide material

- + UV-resistant
- + Packaging: 200-count bag



PN 🔵

13417

6053

1577

1581

1579

0353



Model

Round

Round

Round

Round

Round

Oval





0351

Oval



10.7mm

Ø13x7mm







PN: 03	53		PN: 0350	PN: 03	51				
Diameter	Weight	PN (Model	Diameter	Weight	PN	Model	Diameter	Weight
Ø4-5mm	0.19kg	727	3 Round	Ø4-5mm	0.19kg	16998	Round	Ø6-7mm	0.1kg
Ø5-6mm	0.19kg	035	0 Round	Ø5-6mm	0.2kg				
Ø6-7mm	0.1kg	157	8 Round	Ø6-7mm	0.1kg				
Ø8-9mm	0.14kg	158	2 Round	Ø8-9mm	0.13kg				
Ø9.8 - 10 7mm	0.15kg	158	0 Round	Ø9.8 - 10 7mm	0.15kg				

0.18kg

Wall plug for cable tie

10.7mm

Ø13x7mm

M7 screw-on base





0.23kg

For quick fastening of cables, pipes and sheaths using clamps maximum width 9mm. Fixing with a screw-in dowel or TF 5mm screws.

PN	UV	Weight
0385	100	0.16kg

Dowel base TFD

For quick fastening of cables, pipes and sheaths using clamps maximum width 9mm.

Technical specifications:

+ UV-resistant

+ Hole diameter: 8mm

CABLE PULLING

Tapes



Thermal insulation used to wrap splices before heat-shrinking. shrinking the heat-shrink sleeves.

Technical specifications: + Weight: 72 g

PN	Dimensions	Weight
0371	7m x 70mm	0.1kg

Tanned tape



It enables bundles to be shrunk onto telephone cables. It is particularly useful for making joints.

Technical specifications:

Material: non-adhesive PVC

PN	Dimensions	Weight
0558	50m x 40mm	0.52kg
0559	50m x 70mm	1.36kg

Green anti-corrosion grease strip



Cold-applied greasy green tape without primer. external anti-corrosion protection of buried or insulated buried or insulated networks. Sealing tape for temporary protection temporary protection of cable splices.

PN	Dimensions	Weight
0556	10m x 50mm	0.72kg
0557	10m x 100mm	1.47kg

Reinforced adhesive tape





Tape used for longitudinal and transverse fiberglass reinforcement. and transverse reinforcement. Secures PVC pipes in telecom civil engineering civil engineering trenches. Bundling.

Technical specifications:

+ Material: reinforced polypropylene

PN	Dimensions	Weight
0872	50m x 25mm x 145µm	0.19kg
1797	50m x 50mm x 145µm	0.37kg

SCOTCH 23T adhesive tape

insulating



Aluminium tape



Tape consisting of a smooth aluminum foil coated with a transparent acrylic adhesive. For indoor and outdoor use.

Technical specifications:

+ Non-flammable

PN	Dimensions	Weight	PN	Dimensions	Weight
0857	7m x 25mm	0.22kg	0591	50m x 50mm	0.22kg

cold-applied.

Scotch Tape 23T is an EPR (ethylene-propylene elastomer)

Suitable for low, medium and high-voltage applications.

Self-welding,

tape.



electrical

Self-amalgamating tape



TP tape



Designed for splicing and repairing a wide range of electrical cables up to 46kV. It seals polyethylene sheaths for buried and overhead telephone cables.

PN	Dimensions	Weight
0431	10m x 25mm x 0.5mm	0.13kg
7990	10m x 50mm x 0.5mm	0.38kg

Outdoor use: marking, signage, fixing and repair.

Technical specifications:

+ Material: PVC

PN	Dimensions	Weight
1928	33m x 48mm	0.304kg

Insulating tape



This self-adhesive PVC tape is used for insulating and identifying power and telecom cables, and for shrinking cables.

Product benefits:

+ Excellent elongation

+ Tears easily without special tools

PN	Dimensions	Color	UV	Weight
0488	10m x 15mm		10	0.3kg
0432	20m x 19mm		10	0.92kg
0433	20m x 38mm		1 -	0.18kg
0489	20m x 50mm		I	0.261kg
1118	10m x 15mm	\bigcirc		0.29kg
1119	10m x 15mm			0.29kg
1126	10m x 15mm			0.31kg
1121	10m x 15mm	<u> </u>		0.32kg
1125	10m x 15mm		10	0.31kg
1124	10m x 15mm	•	10 -	0.31kg
1123	10m x 15mm	•		0.29kg
1843	25m x 19mm	•		0.87kg
1122	10m x 15mm			0.31kg
1120	10m x 15mm			0.28kg

CABLE PULLING

Ropes

Product benefits:

- + Rot-proof, can be left standing in sheaths
- + UV: stabilized

PP ropes



Braided switch wire



Twine for tube and pipe routing. Versatile and economical, it is compatible with our wire guides and can be blown into pipes. Its friction-sensitive nature limits its re-use.

Fine braided yarn with a smooth texture, available in lengths up to 2500m. Made from polyester, its elongation provides good shock absorption. It can be blown and reused for multiple runs.

Monofilament



Extremely robust, reusable switch wire. Made from polyamide, it offers the best shock absorption and longest service life in the range. This smooth switch wire can be blown into pipes.

PN	Model	Color	Material	Resistance	Diameter	Length	UV	Weight
14235	PP		Polypropylene	333daN	3mm	1350m	Coil	10kg
13279	PP		Polypropylene	200daN	3mm	1000m	Coil	5kg
15078	PP		Polypropylene	152daN	3mm	1450m	Coil	5kg
7814	PP		Polypropylene	152daN	3mm	1450m	Coil	5kg
7815	PP	\bigcirc	Polypropylene	110daN	3mm	2000m	Coil	5kg
13268	PP		Polypropylene	76daN	3 mm	2900m	Coil	5kg
0429	Braided	\bigcirc	Polyester	55daN	1.3mm	2500m	Touret	2.6kg
2160	Braided		Polyester	110daN	-	1000m	Touret	1.7kg
0803	Braided		Polyester	110daN	-	2500m	Touret	4.9kg
2132	Braided	\bigcirc	Polyester	145daN	2.5mm	900m	Touret	2.7kg
0804	Braided		Polyester	175daN	-	2500m	Touret	7.9kg
0805	Monofilament		Polyamide	100daN	1.8mm	1000m	Touret	4kg
0806	Monofilament	\bigcirc	Polyamide	230daN	3mm	1000m	Touret	9.4kg





Lubricants

– Expert's advice –

How to choose the right lubricant and grease?

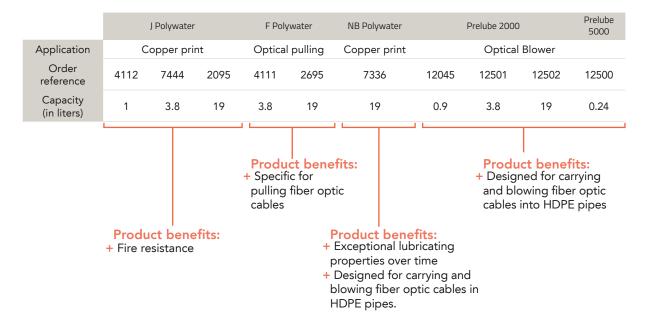
CATEGORY	PN	DESIGNATION	PACKAGING
1. COPPER	15921	YELLOW 77	18.9L
	18267	POLYWATER NN	3.8L
2. COPPER - OPTICAL FIBER	18268	POLYWATER NN	19L
	12045	PRELUBE 2000	0.9L
3. OPTICAL FIBER - BLOWING	12501	PRELUBE 2000	3.8L
	12502	PRELUBE 2000	19L
3. OPTICAL FIBER- SMALL OR SHORT	4111	POLYWATER F	3.8L
NO-BLOW DEPLOYMENT	2695	POLYWATER F	19L
	18267	POLYWATER NN	3.8L
4. OPTICAL FIBER - ELECTRICITY	18268	POLYWATER NN	19L
	0598	SPECA H PULLING GREASE	5kg
5. ELECTRICITY	1605	SPECA H PULLING GREASE	25kg
6. COPPER - ELECTRICITY	4992	YELLOW 77	1L
	4112	POLYWATER J	1L
	7444	POLYWATER J	3.8L
7. D3	2095	POLYWATER J	19L
	5791	Spray FTTx	1L
	0962	CLR type YELLOW	1L



CABLE PULLING

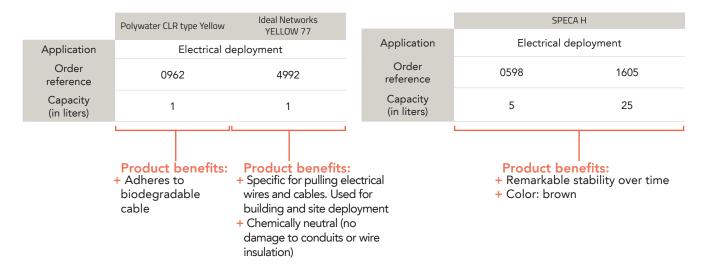


TED® by Polywater® lubricant selection guide



Selection guide - Lubricant

Selection guide - greases



Pulling lubricants

NB silicone lubricant with microbeads TFD



PN: 7336

Liquid lubricant with silicone and microbeads

- **Product benefits:**
- + Exceptional lubricating properties over time
- + For long-distance pulling, blowing and carrying
- + Retains its lubricating properties even in the presence of water in the pipes

PN	UV	Weight	PN	UV	Weight
7336	19L bucket	19kg	4111	Can 3.8L	3.82kg
			2695	19L bucket	19.502kg

cable pulls.

F lubricant

Mater

PN: 4111



Slow-drying, water-based lubricating gel. Suitable for long-distance deployments. Non-flammable. Particularly suitable for fiber optics.

PN	UV	Weight
4112	1L bottle	0.946kg
7444	3.8L bucket	3.96kg
2095	19L bucket	18.837kg

Prelube 2000 and Prelube 5000 lubricants Polywater

Clean, slow-drying, water-based lubricating gel. Reduces tensile stress when pulling cables. Particularly suitable for D1/D2 fiber optic

PN: 2695



Slow-drying, water-based gel lubricant for carrying and blowing fiberoptic cables in HDPE pipes. Suitable for long-distance deployments.

PN	UV	Weight
12045	0.9L bottle (Prelube 2000)	0.953kg
12501	3.8L canister (Prelube 2000)	3.9kg
12502	19L bucket (Prelube 2000)	19kg
12500	0.24L bottle (Prelube 5000)	0.25kg

PPE

Gloves

Leather gloves

EN 388 2.1.2.1.X

Gripper gloves

Cut-resistant gloves



EN 388 2.1.2.1.X

Technical specifications:

- + Polyamide / spandex
- + Nitrile coating
- + Polyurethane on palm and
- fine

t	Nitrile	dots	on	palm
---	---------	------	----	------

fingertips + Nitrile do	ots on palm	
PN	Size	Weight
18212	8	0.05kg
17012	9	0.05kg
17013	10	0.05kg

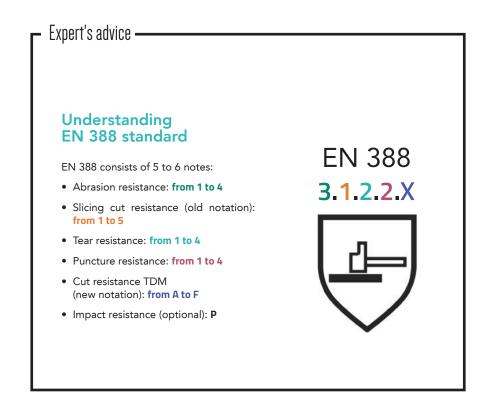


Technical specifications:

- + High-performance fiber
- + Polyurethane coating on palm

and	fingertips

PN	Size	UV	Weight
16984	7	lot of 3	0.23kg
15029	8	lot of 3	0.23kg
15028	9	lot of 3	0.23kg
15030	10	lot of 3	0.23kg
18211	11	lot of 3	0.23kg



Technical specifications:

+ Back to index

+ American cut

ΡN

18181

14146

14147

15373

+ Cowhide split back

+ Full grain cowhide leather palm

Size

8

9

10

11

Weight

0.15kg

0.15kg

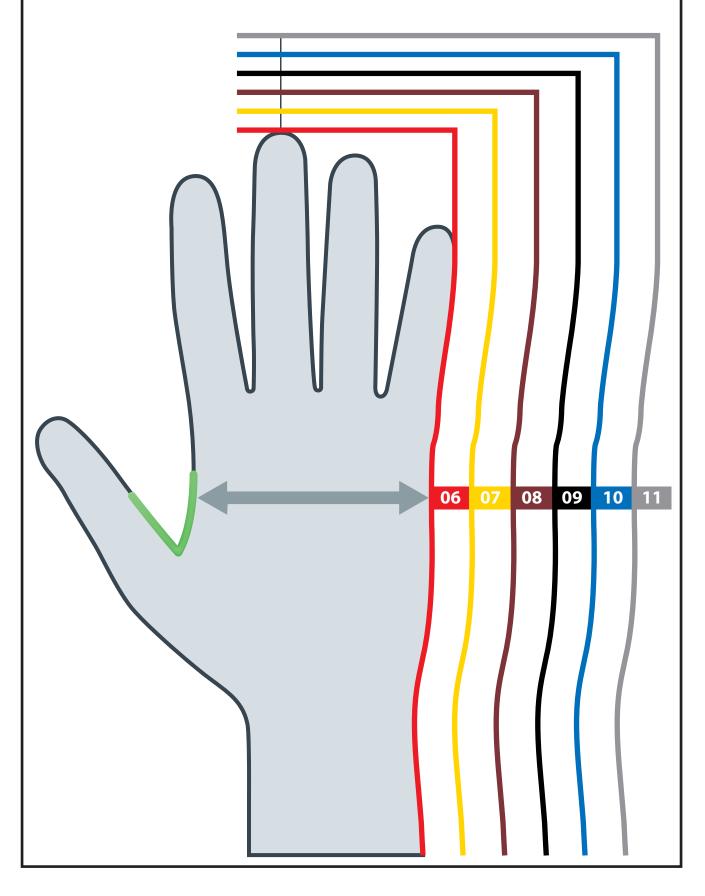
0.15kg

0.15kg

– Expert's advice –

Choosing the right glove size

Place your right hand on the green mark between your thumb and forefinger as shown in the diagram. Read your height on the right side of your hand.



PPE

Cleannings

TED[®] white cotton hand towels





TED[®] multi-purpose cleaning wipes: clean and degrease hands. Removes grease, oil, hydrocarbons, sludge, tar, dirt, putty, glue, paint, etc. They have a scrubbing side to remove stubborn dirt and a soft side for wiping and finishing.

Product benefits:

- + Ready-to-use and disposable
- + Soap-free
- + No rinse / no residue
- + Orange fragrance

PN	UV	Weight
4011	Box of 80	0.567kg
30043	Box of 130	1kg





PN: 4011

PN: 30043

Telencostore

Simplified purchasing management

A team at your service 04 76 35 84 84



Testing

Fiber optic networks

ESSENTIAL TESTERS

Visual fault locator	.116
Power meters & optical light	
sources	.117
Optical fiber identifier	.119
INSPECTION & CLEANING	
Inspection scopes	.120

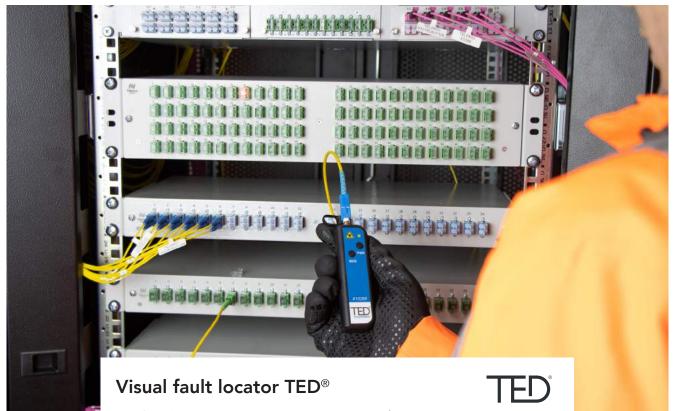
FAULT LOCATOR &

IDENTIFICATION	
OTDR	122
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Fault simulator	125



ESSENTIAL TESTERS

Visual fault locator



TED[®] red lights are an essential tool to perform continuity tests & identify visual trouble on fibre. Localization of faults such as macro-bends, broken fibre, bad splices. Covers distances up to 10km.

Technical specifications:

- + Wavelength: 650nm (±10nm)
- + Laser class 3B (10mw)
- + Laser class 2B (1mw)
- + Output power: 10mW
- + Range up to 10km
- + Optical connector: 2.5mm (universal)
- + Protective cover for connector

Product benefits:

- + Ergonomic pocket-sized design
- + Protective cover for connector

Warning: Class 3B Laser

- Do not stare into beam
- The wearing of protective glasses is mandatory

PN	UV	Operating	Weight
15289	10mw Visual fault locator TED®	2 LR3 batteries	60g
13094	Adapter for 1.25mm LC connector ferrule	-	7g
1000946	1mw Visual fault locator TED®		





PN	Description	Pack
17887	Protective laser overglasses	Unit

Power meters & optical light sources



2 in 1 power meter & 10mw visual fault locator

The TED[®] Optical Power Meter is a miniature, high-precision instrument with a built-in visual fault location. It performs performance measurements of passive optical links and finds faults. This pocket format combines practicality, lightness and performance.

Technical specifications: -

rechnic	cal specifications:		
TED [®] 33005		Specifications	
Wave	elength range (nm)	850 ~ 1700	
[Detector type	InGaAs	
Measu	rement range (dBm)	-50~ +26	
	Accuracy (dB)	± 0.3	
Calibra	ted wavelength (nm)	850. 1300. 1310. 1490.	1550. 1625
R	esolution (dB)	0.05	
Outpu	t power (VFL) (mW)	10	
Estir	nated range (Km)	10	
Transmission frequency		CW/2Hz	
Operat	ing temperature (°C)	-10~+60	
Storage temperature (°C)		-25~+70	
Automatic shutdown (min)		10	
Op	perating time (h)	130 hours	
	Power supply	3 batteries AAA volts/Micro-US	
Weig	ght & Dimensions	70g (without batt 128 x 52 x 22 r	
PN	UV	Operating	Weight
33005	2 in 1 power meter & visual fault locat		70g



TED

Warning: Class 3B Laser

- Do not stare into beam
- The wearing of protective glasses is mandatory



TESTING Fiber optic networks

ESSENTIAL TESTERS

3 in 1 Optical fibre tester TED®



Essential tool for performing all key tests of an optical fibre link on a FTTx network. Traffic detection checks the possible presence of a signal on a fibre without disconnecting or disrupting the network traffic. It also indicates the direction of the signal. The visual fault locator (VFL) highlighst faults & defects of a fibre link such as bends and continuity ruptures. The optical power meter (OPM) measures the performance of optical links.

R 13

Product overview:

+ Signal detection

- + Identification of an active fibre
- + Isolate a potential damaged fibre
- + Signal direction
- + Indication of modulation frequency
- + Visual fault locator (VFL)
- + Continuous & flash modes
- + 10 mW output power
- + Power meter module (OPM)
- + Units of measurement : $dBm/dB/\mu W$
- + Wide wavelength range (850nm -1625nm)

Features & Benefits:

- + 3 in 1 tool. compact and
- ergonomic all in one fibre tester + 4 adapters to support most of fibre diameters (250µm; 900µm; 2mm; 3mm
- + Universal 2.5mm connector (SC/ ST/FC) for visual fault locator and power meter
- + Backlit color display
- + 24 months warranty



Warning: Class 3B Laser

- Do not stare into beam
- The wearing of protective glasses is mandatory



PN	Description	Pack	Weight	
1001597	3 in 1 Optical fibre tester TED®	Unit	145g	

PN	Description	Pack
17887	Protective laser overglasses	Unit



Optical fiber identifier

TED® Optical fibre identifier with signal direction

The TED[®] fibre optic detection clamp is an indispensable tool for telecom field engineers. It enables to detect the presence of a signal in the optical fibre without the need to disconnect it. By slightly pinching the fibre, a small part of the signal is diverted to 2 photodetectors and then measured to reveal the direction of the traffic and the relative optical power level. This operation can be performed on fibres in service.

Thanks to its adapters for 250 $\mu m,$ 900 $\mu m,$ 2 mm and 3 mm diameter sheaths, this tester is suitable for all applications and meets all needs:

- identify an active fibre
- isolate a problematic fibre
- evaluate the relative power level of the signal
- detect the direction of traffic
- detect a modulated signal at 270Hz. 1kHz and 2kHz

The TED[®] traffic detection clamp is a robust, field-proven design that comes complete with 4 adapters stored in a compartment, a light cover, 2 AAA alkaline batteries and a carrying case.

Technical specifications:

- + Detection down to -50dBm
- + 270 Hz modulation detection. 1 and 2kHz
- + Compatible with G.652 / G.657 single-mode fiber
- + Right and left LED traffic direction indication
- + Set of 4 adapters 250 and 900µm. 2 and 3 mm included
- + Trigger for fiber retention and audible indication
- + Lightweight, robust aluminum case
- + Carrying case

PN	UV	Operating	Weight
33002	Optical fibre identifier TED®	2 LR3 batteries	195g
16254	Set of 4 adapters	-	40g

TED

88

TED

INSPECTION & CLEANING

Inspection scopes

FiberChek Probe Microscope

The FiberChek Probe builds on the VIAVI industry leading expertise in fiber inspection to deliver a single "all-in-one" handheld solution that every fiber technician can rely on for all of today's fiber inspection needs in a fully autonomous, handheld device. With built-in capabilities for image viewing, auto-focus, Pass/Fail analysis, storing/recalling results, the FiberChek Probe completely automates inspection workflows to ensure fast and accurate performance. Whether used as on its own or connected (WiFi, USB) to other devices, the FiberChek Probe is the essential fiber tool for every technician.

Product overview:

- + Integrated touch screen with realtime view of the connector
- + Automatic focus & centring
- + Clear pass/fail information
- + User-configurable threshold
- profiles
- + Generate report with fail/pass results
- + Compatible with FiberCheckPRO software

VIAVI

- + Magnification up to x200 & x400 for a detailled analysis
- + Specific adaptor on request
- + Carrycase

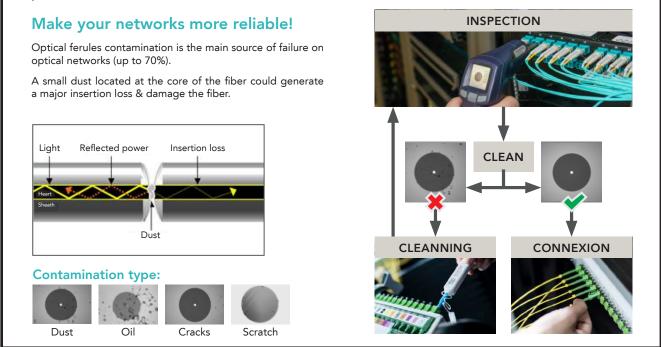


PN	Description	Operating	Weight
15925	FiberCheck probe micros- cope with 6 adaptors	Li-Ion battery	270g

Kit with 6 adapters:



Expert's advice





SmartPocket V2 OMK-35V2/-36V2



The VIAVI OMK-3xV2 optical test kits are a range of pocket-sized and rugged instruments for installing and maintaining single mode (SM) and multimode (MM) fiber optic networks. All test kits are equipped with an optical power meter and a dual or quad-wavelength optical light source for power level, insertion loss measurements, and continuity checks.

- **Product overview:**
- + Optical light source OLSx (single or multi mode)
- + OLP35V2 power meter
- + Large LCD screen
- + Measurement unit (dB, dBm, W)
- + Measurement range for power
- level

Technical specifications: -

+ 2.5mm	SC/ST/FC	connector
adaptor		

- + 1.25mm LC connector adaptor
- + Long battery life
- + USB data storage & extraction
- + Carry bag
- ,



Specifications	OMK-35P	OMK-36P
Optical source type	OLS-35	OLS-36
Wavelengths	1310 / 1550nm	850 / 1300nm - (50/125μm); 1310 / 1550nm
Power output	-7dBm (monomode)	-20dBm (multimode); -7dBm (monomode)
Connector type	Interchangeable SC, FC	Interchangeable SC, FC
Ferrule type	PC	PC

PN	Description	Operating	Weight
11678	OMK-35P	4 LR6 batteries	600g
2099	OMK-36P	4 LR6 batteries	600g
12608	Adapter for 1.25mm ferrule	-	1g

restring Fiber optic networks

SmartClass Fiber OLP-87 PON Power Meter

The OLP-87 PON Power Meter enables simultaneous power measurement of all upstream & downstream wavelengths on live B/E/G-PON networks and is also compatible with next generation PON networks (XG(S)-PON, 10G EPON & NG-PON2).

Product overview:

- + 3.5" colour touch screen
- + Calibrated wavelenghts
- 1310/1490nm
- + Clear pass/fail information
- + Measurement unit (dB, dBm, W)
- + SC/APC connector
- + Compatible with P5000i inspection probe (as option)
- + PDF report trought Smart Reporter software
- + Up to 10 000 results saved
- + USB interface
- + Carry case



Technical specifications: -

Specifications	OLP-87	OLP-87 XG-PON
Wavelength-selective power meter	 Image: A second s	
Wide range of single mode wavelenghts		Option
Measurement range for power level	-50 to +13dBm	-50 to +13dBm
Number of calibrated wavelenghts	1310/1490nm	1270/1310/1490/1550/1578nm
G-PON compatibility		
XG-PON & 10G EPON compatibility	×	 Image: A set of the set of the

PN	Description	Operating	Weight
11824	OLP-87	8 LR6 batteries	750g
16251	OPL-87 XG- PON	8 LR6 batteries	750g
16253	Broadband option	-	-

FAULT LOCATOR & IDENTIFICATION

OTDR

Applications SLM pour OTDR

VIAVI

VIAVI

The SLM intelligent optical software application helps technicians use an OTDR more effectively, without the need to understand or interpret OTDR results. Each event is displayed as an icon giving users a schematic view of the entire link, known as SmartLink. SLM can completely correlate to the original OTDR trace as experts desire. SLM displays OTDR results in a simple, icon-based map view (SmartLink), providing a clear diagnostic of detected issues.





Classic view

FiberCable 2 software for OTDR results processing

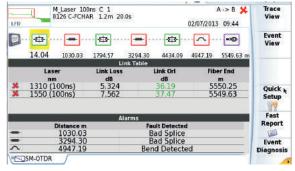
FiberCable 2 is a post-processing PC Software for fast and efficient viewing, editing, analyzing, and reporting of optical fiber test data carried out on all VIAVI MTS/SmartOTDR plateforms. Fiber optic cable plant documentation allows better planning for future network upgrades and is essential during troubleshooting to help technicians find faults and fix them in a timely manner. FiberCable 2 easily generate compelling reports to record field data in a professional format. FiberCable 2 also adds the ability to generate high-fiber-count cable OTDR acceptance reports and fibercharacterization reports combining various test results in a single document (for example, OTDR, IL, ORL, PMD, and CD).

Product overview:

- + Makes OTDR result interpretation quick and easy
- + Immediately provides a clear diagnostic when a bad link element is detected
- + Directly correlates SLM view results and OTDR traces
- + Available for all SmartOTDR, T-BERD/MTS-2000, -4000 V2, -6000A platforms

PN	Application
15423	FTTH-SLM
16286	FTTA -SLM
16284	CABLE -SLM
16285	ENTREPRISE -SLM





SmartLink view

Product overview:

- + Improve productivity by reducing data postprocessing times from hours to minutes
- + Manage multiple OTDR traces with automated, bidirectional alignment and analysis
- + Batch-processing/macro functions automatically perform repetitive actions and save results to a series of files
- Generate professional reports to certify the work with onboard pdf report generation system
- + Edit and analyze multiple measurement files

Automated backup of OTDR traces on PC for simplified management of trace analysis and editing of recipe books.

PN 12481 Application FiberCable 2





The SmartOTDR essential handheld fiber tester is an affordable, easyto-use device for techs at any level, with robust wireless connectivity options that increase productivity anywhere. It integrates all the essential fiber test requirements into a single device with OTDR measurement, fiber end face analysis, optical loss testing and visual fault locator.

4 11810

vent

53

Nb Evts : 16

Distance

Fiber002_13100E

VIAVI SmartOTDR

1310nm 300ns Fiber 2

Technical specifications:

- + Large 5" touch screen + SC/APC connector
- + Integrated optical light source
- + Up to 10 hours operating time
- + USB driver & WiFi
- + Robust & flexible carry case
- + Smart link mapper software to quickly identify the type of fault detected

Technical specifications: -

Specifications	126A	126B	138FA65	136FB
Wavelength	1310 / 1550nm	1310 / 1550nm	1310/1550 and 1650nm filtered	1310 / 1550 and 1625nm filtered
Number of optical interfaces	1	1	2	2
Dynamics	37 / 35dB	40 / 40dB	37 / 35 / 32dB	40 / 40 / 41dB
Dead zone event	1.35m	0.9m	1.35m	0.9m
Dead zone attenuation	4m	2.5 m	4m	2.5m

Tri-lambda capable OTDR ideal for maintenance on an active optical fiber.

VIAVI

Testing

14:49 16/03/2015 oTrace mar Sum

T. Loss dB

-0.797 -0.676

-0.135

Zoom

oCursor A Cursor B

> Setup -Fast

Report

LOC B

Reflect. dB

100

Press ENTER Key for Full or Automatic ZOO

Link Orl : 31.42 dB

Km

348

Loss dB

0.065

0.30



OTDR without add-on module

PN	Designation OTDR Smart	Operating	Weight
19913	126A 1310 / 1550 SC/APC with SLM		
15424	126B 1310 / 1550 SC/APC with SLM		
15703	136FB 1310/1550 and 1625 SC APC filtered with SLM	Li-Po battery	900g
14887	138FA65 1310/1550 and 1650 SC/APC filtered with SLM		

Launch leads

Launch lead singlemode

Fiber launch leads are essential elements in the optical reflectometry measurement chain. Their use is mandatory to validate and certify a fiber optic network. Their main functions are: • Minimize the effect of OTDR dead zone

• Characterize input and output optical link connectors for which it is important to know the loss and reflectance values.

Technical specifications:

- + Light, compact & really handy
- + Pigtails secured outputs
- + 3mm reinforced pigtails
- + Easy maintenance (do it yourself possible trought
- the integrated inner splice tray)



Ref	Designation	Weight
13769	Single mode G.657A2 SC/APC - SC/APC lg 500m	670g
14448	Single mode G.657A2 SC/APC - SC/APC lg 1000m	680g
14876	Single mode G.657A2 SC/APC - SC/APC lg 2000m	700g
12574	Single mode G.652D SC/APC - SC/APC lg 500m	670g
13260	Single mode G.652D SC/APC - SC/APC lg 1000m	680g
14404	Single mode G.652D SC/APC - SC/APC lg 2000m	700g
13126	Single mode G.652D LC/UPC - LC/UPC lg 500m	670g
14106	Single mode G.652D LC/UPC - LC/UPC lg 1000m	680g
7334	Single mode G.652D LC/UPC - LC/UPC 2000m	700g
14531	Multimode OM1 FC/UPC - FC/UPC lg 500m	670g
11582	Multimode OM1 SC/UPC - SC/UPC lg 500m	670g
12750	Multimode OM1 ST/UPC - ST/UPC lg 500m	670g
7332	Multimode OM2 SC/UPC - SC/UPC lg 500m	670g
2688	Multimode OM2 LC/UPC - LC/UPC lg 500m	670g
6270	Multimode OM2 ST/UPC - ST/UPC lg 500m	670g
11585	Multimode OM3 SC/UPC - SC/UPC lg 500m	670g
0846	Multimode OM3 LC/UPC - LC/UPC lg 500m	670g

Technical specifications:

Fibre types	OM1, OM2, OM3, OM4, G652, G657
Connections	FC, LC, MU, SC, ST
Angulation	PC or APC
Lengths multimode standard	150m, 300m and 500m
Lengths standard single-mode	500m, 1000m and 2000m
Pigtails length	1.5m
Pigtails surgainage	Ø3mm







Fault simulator

Single mode fault simulator launch lead SC/APC

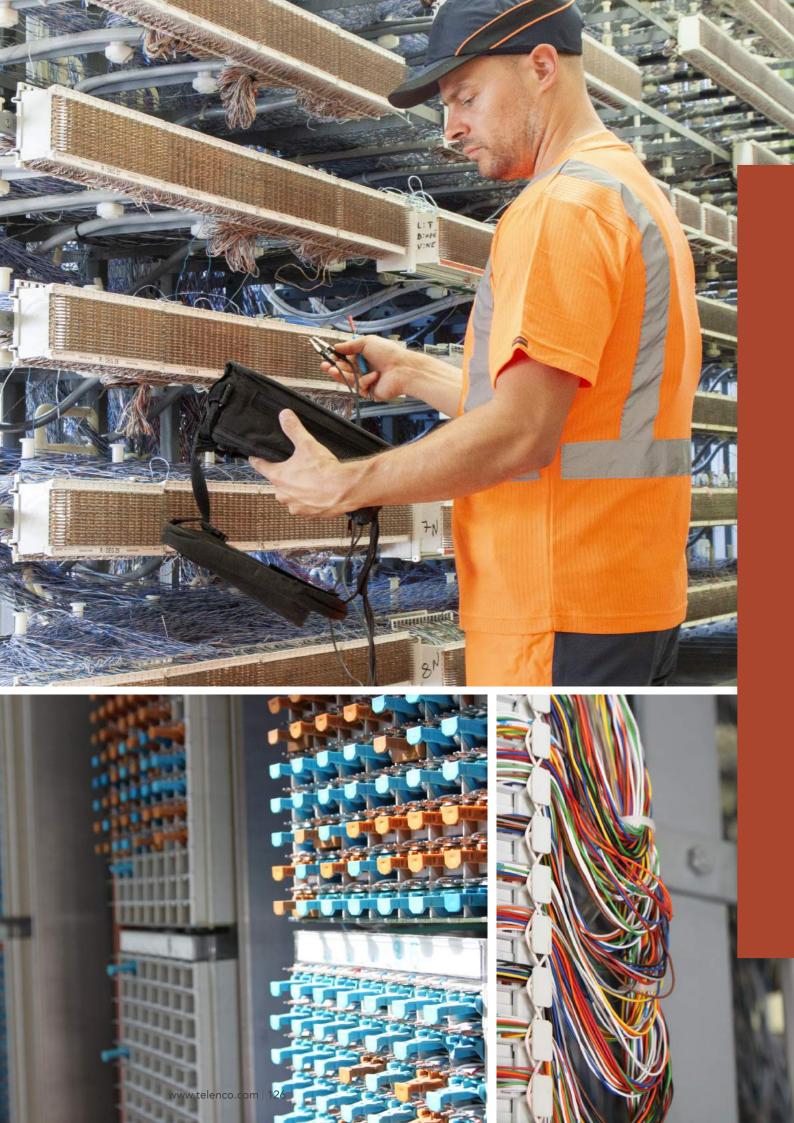
Designed to train rookie fiber engineers dealing with fiber testing. This luanch lead is a practise simulator with 4 type of typical fault networks. This tool is a must have for engineers who will be required to carry out tests and measurements on the networks

Product overview:

- + SC/APC connectors
- + 120m fiber link without any fault
- + 120m fiber link with a bad connector
- + 200m fiber link with a macro bend
- + 300m fiber link with 2 high loss splices

PN	Designation	Weight
13132	Single mode fault simulator launch lead SC/APC	880g







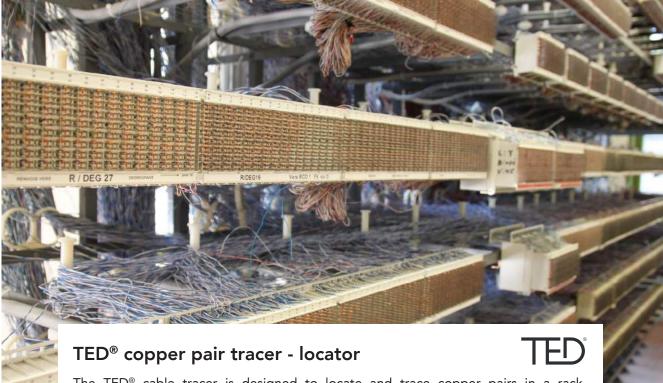
Cooper XDSL networks

ESSENTIAL TESTERS
Cable tracing128

FAULT LOCATOR & IDENTIFICATION Fault locator129

ESSENTIAL TESTERS

Cable tracing



The TED® cable tracer is designed to locate and trace copper pairs in a rack, a distribution frame or a connection point during installation or maintenance operations. This tool is essential for anyone working on copper cabling for telecom and computer networks. In addition to detecting and tracing copper pairs, this kit allows for polarity detection, telephone line status verification, telephone line identification and continuity testing. It comes with a tone generator and an amplifier probe. The tone generator has an external 3-position switch to select the operating mode together with a 3-colour LED to indicate line polarity, continuity and voltage test. An internal switch located in the equipment allows to choose between a continuous tone or an alternative tone. The tone is audible and visible respectively through the speaker and LED on the amplifier probe. The volume is adjustable for better identification of the wires and to avoid crosstalk with other wires. The volume can be turned off completely to avoid battery consumption.

Technical specifications:

- + Volume control and jack for use with headset or handset
- + On/off and volume disable button on the amplifying probe to limit power consumption and nuisance switching
- + Insulated and resistant probe tip to avoid short circuit risks
- + Electrical protection of the generator against lines supplied up to 110V AC/DC
- + RJ11 connector and 2 alligator clips available on the generator
- for connection to twisted pair, RJ11 socket and coaxial cable + Transport bag



PN	UV	Operating	Weight
33001	TED [®] Tracer	2 batteries 6LR61	250g (Generator 110g - Probe 140g)

FAULT LOCATOR & IDENTIFICATION

Fault locator



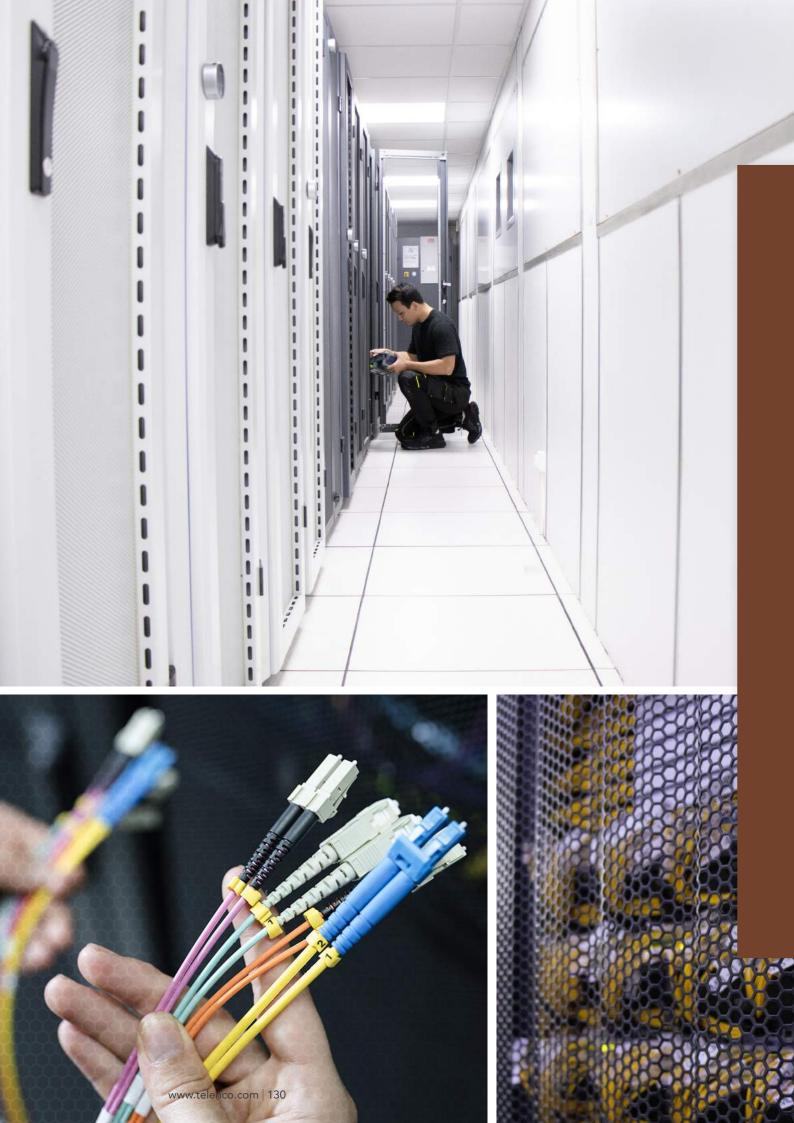
OneExpert

MODERNITY AND PERFORMANCE for end-to-end copper diagnostics

- Insulation fault location (RFL)
- Double-trace echometer (TDR)
- Megohmmeter/Multimeter
- ADSL2+/VDSL2 tester
- · WiFi scan and analysis
- · Optimized tests for internal services
- Interference detection (PRO version)
- Crosstalk measurement (PRO version)

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VIAVI



Testing

Datacenters & Consumables

INSPECTION & CLEANING

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FAULT LOCATOR &

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Touch point	.136
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Charger	.138



INSPECTION & CLEANING

Inspection scopes

FiberChek Sidewinder

VIAVI

The FiberChek Sidewinder is the industry's first "all-in-one" handheld inspection and analysis solution for multifiber connectors such as MPO. The latest addition to the award-winning VIAVI FiberChek family delivers a completely automated solution to inspect and analyze every fiber of an MPO or other multifiber connectors with industry-leading reliability and speed.

Product overview:

- + Equipped with an MPO adapter (more configurations available)
- + Touch screen for real time connector checking
- + Fast & accurate tests, quick processing 15sec
- + Auto focus
- + Auto analysis with visual pass/failed result notification

PN	Designation	Operating	Weight
16366	FiberChek Sidewinder	Batterie Li-Ion	550g

FAULT LOCATOR & IDENTIFICATION

OTDR

MTS-4000 V2 Platform

VIAVI

MTS-4000 V2 is a small, compact and handheld test platform designed for all phases of the network lifecycle, from the installation to the maintenance of Metro, Core, Access, FTTH, FTTx, HFC, Wireless, 5G, Enterprise and Data Center networks. Modular in design, the T-BERD/MTS-4000 V2 offers engineers, technicians, installers and contractors the highest performance and superior levels of scalability and upgradeability.

Product overview:

- + Large 9" touch screen
- + Single mode & Multimode fiber tester
- + SC/APC & MPO connectors
- + SD card data storage could be extracted trought USD driver & VIAVI cloud system
- + Robust flexible carry case
- + FiberCable & SLM as optional software

PN	Designation	Operating	Weight
16349	MTS-4000 V2 Platform	Batterie Li-Ion	1400g

Specifications	MA2
Wavelength	1310 / 1550
Dynamics	40 / 40dB
Event dead zone	0.7m
Attenuation dead zone	3m



CONSUMABLES

Spare adaptotors & patchcords

Straight xDSL RJ11 2m patchcord

Tasknisal	specifications:
lecnnical	specifications:

- + RJ11 to RJ11 connectors
- + Reinforced connectors

PN	Designation	Weight
12422	Straight xDSL RJ11 2m patchcord	39g



Straight RJ45 F/UTP Cat.6 2m patchcord

- Technical specifications:
- + RJ45 to RJ45 connectors
- + Reinforced connectors

PN	Designation	Weight
13262	Straight RJ45 F/UTP Cat.6 2m patchcord	200g



Straight xDSL RJ45/RJ11 2m patchcord

Technical specifications:

- + RJ45 to RJ11 connectors
- + Reinforced connectors

PN	Designation	Weight
4436	Straight xDSL RJ45/RJ11 2m patchcord	59g



Custom cords

xDSL RJ11 cable / 2 banana plugs 2m long

Technical specifications:

- + RJ11 connector
- + Reinforced connector
- + Flexible touch point

Product compatibility:

- + AuroraPresto
- + MC2+
- + Check compatibility with other ADSL testers



xDSL RJ45 cable / 2 banana plugs 2m long

Technical specifications:

- + RJ45 connector
- + Reinforced connector
- + Flexible touch point

Product compatibility:

- + MTT-Lite ADSL
- + SmartClass TPS



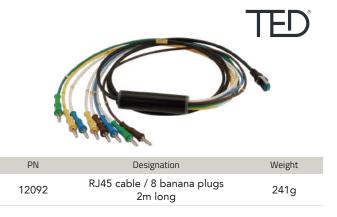
RJ45 cable / 8 banana plugs 2m long

Technical specifications:

- + RJ45 connector
- + Reinforced connector
- + Flexible touch point

Product compatibility:

- + UniPRO Gbis
- + Any testers which requires a RJ45 to banana plug





RJ45 cable / 4 SHDSL banana plugs lg 2m Type MTT Lite

Technical specifications:

- + RJ45 connector
- + Reinforced connector

Product compatibility:

+ MTT-Lite SHDSL bi-pair (module 14B)



	Designation	
12091	RJ45 cable / 4 SHDSL banana plugs lg 2m - Type MTT Lite	155g

ΡN

RJ45 cable / 4 banana plugs lg 2m 2M/E1 tester

- Technical specifications:
- + RJ45 connector
- + Reinforced connector

Product compatibility:

+ All 2M/E1 transmission testers



Copper tester lead 3 banana plugs angled 2mm / 3 banana plugs 4mm lg 2m

Technical specifications:

+ Protective braid

Product compatibility:

- + 990DSL CopperPRO
- + HST-3000
- + OneExpert + SmartClass TPS
- + Tech-X-Flex
- + Check compatibility with other xDSL testers integrating copper local loop measurements



PN	Designation	Weight
13324	Copper tester lead 3 banana plugs angled 2mm / 3 banana plugs 4mm lg 2m	150g

Banana patchcord



Insulated straight/angled banana patchcord 4mm



Touch point patchcord

Straight banana plug touch point patchcord 4mm



Angled banana plug touch point patchcord 4mm





PN	Color	Length	Weight
11245	🔴 Red	1m	55g
11244	Black	1m	55g
11246	💂 Red	2m	70g
11243	Black	2m	70g

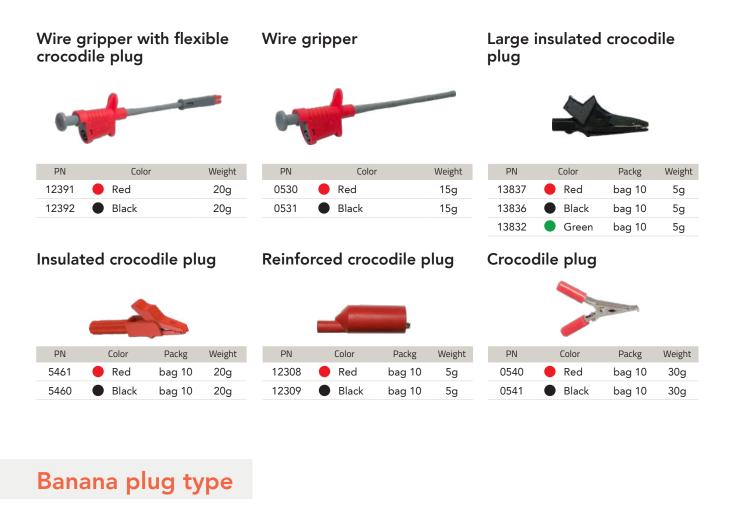
Touch point

Touch point 4mm





Wire gripper & plugs



Banana plug to screw 4mm



Banana plug fast connector 4 mm



Banana plug to weld 4mm



PN	Color	Packg	Weight
1584	🛑 Red	bag 10	4g
1585	Black	bag 10	4g

Banana plug adaptor 4mm to banana 2mm



10

CONSUMABLES

Charger

Universal charger 12 V / 2.5 A (Con. Ø2.5mm) with power cord

Technical specifications:

+ Supplied with power cord and power supply unit with voltage presence indicator

Product compatibility:

- + Aurora Presto
- + Aurora Sonata
- + CopperMax
- + MTT-Lite
- + SmartClass TPS
- + UniPRO Gbis
- + Check compatibility for other testers



PN	Designation	Weight
12417	Universal charger 12 V / 2.5 A (Con. Ø2.5mm) with power cord	400g

Universal charger kit for AA and AAA batteries



PN	Designation	Weight
6295	Universal charger kit for AA and AAA batteries	584g



NOTES -

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