



Underground Cable Laying





For optimal cable-laying, choose from the wide range of cable guides and accessories shown in the following pages. When used correctly they minimise damage to the conductor from abrasion, friction, excessive traction, etc.

CABLE GUIDES

TL2914 RE300 Straight Guide

Straight zinc coated guide, with ball bearings. The special design provides space for existing cables below the guide.

■ Weight 3,5 kg.



TL2915 RE310 Angle Guide

The angle guide has 3 sheaves with ball bearings protected against dust and dirt. Several units can be bolted together to allow the conductor to pass freely. Weight 15 kg.



Replacement sheave
Ref: TL2919
Heavy duty replacement sheave:
Ref: TL4240

TL2916 RE320 Quadrant block

The quadrant block consists of three sheaves mounted on a heavy duty zinc coated steel frame, with protected bearings as in the other models. Weight 9 kg.



TL2917 RE400 Cable guide

Robust, heavy duty telescopic cable guide, made up of one roller on a zinc steel spindle which can be lengthened or shortened to suit different size manholes.



REFERENCIA	LONGITUD (mm.)		PESO (kg.)
	mínimo	máximo	
TL2917	400	600	6
TL2918	800	1300	8

TL4714 RE320 Heavy duty quadrant block

Heavy duty quadrant block to lead the cable into the manhole, with a single wide sheave on a solid steel frame with hermetically sealed ball bearings. Weight 11 kg.



TL4896 TR400 Heavy duty cable guide

Robust, heavy duty extra wide telescopic cable guide, made up of one roller on a zinc steel spindle which can be lengthened or shortened to suit different size manholes. Extra sections can be added to one or both sides for greater length and extra adaptability. Weight 23 kg.



TL4897 Extension sections

TL4715 TR330 Heavy duty angle Guide

Heavy duty telescopic angle guide which adapts perfectly to the manhole, providing versatility and performance to optimise cable-laying operations. Weight 42 kg.



TL4713

TR310 3 sheave curve

This new open frame assembly has an unequalled range of adjustments to adapt to different work conditions. Advanced design, quick attachment, easy to use with minimum force required. Weight 29 kg.



TL4156

Duct feeder

Zinc plated duct feeder with four sheaves which optimise the insertion of the conductor in the duct. Extremely robust and durable. Prevents damage to the duct, and, of course, to the conductor.

REFERENCE	DIAMETER (mm)	
	FOREIGN	INSIDE
TL4156	090	70
TL4157	110	89
TL4161	125	100
TL4165	140	114
TL4167	160	132
TL4168	200	165



NOTE

It is essential to know the interior diameter of the duct to select the correct feeder guide.

Front view ►



TL2947

"V"-shaped cable guide

This guide is placed just after the reel, and helps to guide the feed, with its simple, reliable centring system which avoids contact with the sides of the trench.

- Sheave diameter 35 mm.
- Length 620 mm.
- Dimensions: 1050 x 470 x 520 mm.
- Weight 15 kg.



CABLE LAYING LUBRICANTS

TL6377 Lubricant

Made from water soluble low-residue polymers, these lubricants offer a low coefficient of friction, thus reducing the pulling force required. Easy to apply, non-drip, colourless, stain-free.

■ 18,92 litre container.



REEL STAND JACK

Universal rack and pinion reel stands are used by major electricity and communications companies thanks to their high performance, solid construction and ease of handling.

TL2832 Reel stand jack without wheels

- Roller head.
- Safety brake.
- Maximum reel diameter 2.400 mm.
- Load capacity 5.000 kg.
- Weight 50 kg/unit.

TL2833 Reel stand jack with wheels



TL2816 Jack shaft

Shaft designed to facilitate reel handling in universal rack and pinion jacks, fitted with rotary bushings at each end and a conical bushing in the centre to fix the reel and prevent reel movement.

REFERENCE	REEL STAND MODEL	LENGTH (mm)	DIAMETER (mm)
TL7160	TL2832/33	1600	60
TL7889	TL2832/33	2000	60
TL4951	TL4725	2200	70
TL4915	TL4725	2200	90

NOTE

On request these can be supplied with shafts of different lengths and diameters.

TL2820 Replacement cones



TL8044 Hydraulic reel stand jack

Hydraulic reel-lifting jack. Supplied with axle, with a height adjustment device to locate the axle at the required height. With wheels to facilitate transport.



- Dimensions:
base 340 x 540 mm,
height 1.200 mm.
- Maximum reel
diameter 2.500 mm.
- Maximum load 7.000 kg.
with 90 mm diameter axle.

NOTE

Supplied with 70 mm
diameter axle with a capacity
of up to 5.000 kg.

TL1657 Rack and pinion jack

All-metal construction, using special treated steel. The jack is operated by a jack handle which turns the pinion wheel. There are two different models.

REFERENCIA	CAPACIDAD (Kg)	ALTURA MIN. (mm)	PESO (Kg)
TL1657	5000	700	20
TL2834	10000	810	38

NOTE

Elevation and load are effected
by the box, the rack remaining
fixed on its base.



REEL RAMPS AND ACCESSORIES

TL2945

Reel ramps

Set of 2 ramps with aluminium rollers, suitable for small and medium-sized reels of any width, since the ramps are independent of each other. Maximum load 1.000 kg. Adjustable reel diameter (600/1.200 mm). Weight 18 kg.



TL2946

Lifting hook

Reel lifting hook, with practical, easy-to-use clamping system. Minimum reel axle diameter 60 mm. Maximum reel axle diameter 140 mm. Maximum load 2.000 kg. Weight 8,5 kg.



Fig. 1 - Insert into reel.



Fig. 2 - Pull on the ring to anchor.

Fibre glass cable rods, manufactured in different lengths and diameters, allow cables to be pass almost effortlessly through tubes, even when there are already other conductors inside them.

TL2923

Fibre glass cable rods. Length 60 m, diameter 6 mm
Supplied in 550 mm diameter vertical metal container without wheels.
Weight 8 kg.

TL2928

Fibre glass cable rods. Length 80 m, diameter 9 mm
Supplied in 600 mm diameter vertical metal container without wheels.
Weight 15 kg.

TL2929

Fibre glass cable rods. Their unique design allows the guide to slide smoothly. Supplied in 1.000 mm. diameter vertical metal container with wheels.



REFERENCE	LENGTH (m)	DIAMETER (mm)	WEIGHT (Kg)
TL2929	100	11	35
TL2930	120	11	38
TL2934	150	11	43
TL2935	200	11	50

NOTE

Not to be used to pull cables directly.



TL2957

Replacement fibreglass rod

Replacement fibre glass rod, with starter sleeves on each end.

NOTE

We recommend using rods of at least 11 mm. diameter for lengths of over 80 m.

REFERENCE	LENGTH (m)	DIAMETER (mm)
TL2957	60	6
TL2958	80	9
TL2959	100	11
TL2960	120	11
TL2961	150	11
TL2962	200	11

TL2926

Straight head

Straight head with shackle, for 6, 9 and 11 mm diameter rods.

REFERENCE	DIAMETER (m)
TL2926	6
TL2932	9 y 11



TL2927

Aluminium roller

Aluminium roller for 6, 9 and 11 mm diameter rods.

REFERENCE	DIAMETER (m)
TL2927	6
TL2933	9 y 11



TL2966

Rod sleeves

REFERENCE	TYPE	DIAMETER (m)
TL2966	(1) Principle	6
TL2967	(1) Principle	9
TL2968	(1) Principle	11
TL2963	(2) Splice	6
TL2964	(2) Splice	9
TL2965	(2) Splice	11



Joint



Leader

TL2955

Adhesive

Special adhesive for rods. For strong, rapid bonds. Supplied with applicator. Contents 24 ml.



CABLE PULLING HEADS

TL4711

Three conductor pulling head

Specially designed for underground M.V. cable laying. Easy assembly directly onto the conductor, with swivel device to prevent the conductor from twisting. Allows operation with three 1 x 150 mm² conductors or three 1 x 240 mm² conductors.



TL4713

Single conductor pulling heads

The system of fixing the heads to the conductor (which does not need special tools) allows safe reliable pulling. Supplied with rotary head to prevent the conductor from twisting during installation. All pull heads are colour-coded for ease of use.

REFERENCE	SECTION (mm ²)	DIAMETER (mm)	DIMENSIONS (mm)				
		MAXIMUM	A	B	C	D	E
TL3288	150	15	29	10	27	8	13
TL3289	240/300	21	37	14	33	11	14
TL3290	400	24	44	16	40	14	20
TL3291	500/630	29	52	19	45	16	18
TL3292	800	33	51	19	45	16	18
TL3293	1000	39	64	25	71	22	31



MEASURING WHEELS

TL3960

Measuring wheel manufactured from extremely light materials. Diameter 33 cm Counter 9999.99 m. Zeroing button.

Can be folded in half for easier transport and storage. Supplied with carrying bag.



Numeric counter
up to 9999.99

TL3958

Measuring wheel manufactured from extremely light materials. Diameter 32 cm Counter 9999.99 m. Zeroing button.

Can be folded in half for easier transport and storage.

NOTE

Robust and extremely resilient.
Supplied with carrying case.



CABLE GRIPS

Mainly for use in underground cable laying. Specially manufactured with double steel strand, to allow these grips to support high traction forces without losing flexibility.

TL4499

Grip with 1 loop

REFERENCE	MODEL	DIAMETER (mm)		LENGTH	CHARGE (kg)
		LEAST	MAXIMUM	(mm)	
TL4499	Nº 0	7	16	410	400
TL4500	Nº 1	16	25	420	700
TL4501	Nº 2	20	30	650	900
TL4502	Nº 3	30	50	920	1500
TL4503	Nº 4	50	80	1000	2500
TL4505	Nº 5	70	100	1500	3000



Detail of loop

TL4506

Double loop open grip

REFERENCE	MODEL	DIAMETER (mm)		LENGTH	CHARGE (kg)
		LEAST	MAXIMUM	(mm)	
TL4506	Nº 0A	7	16	410	400
TL4507	Nº 1A	16	25	420	700
TL4508	Nº 2A	20	30	650	900
TL4509	Nº 3A	30	50	920	1500
TL4510	Nº 4A	50	80	1000	2500
TL4511	Nº 5A	70	100	1500	3000



Detail of open grip

TL2924

Grip for fibre optic cable

REFERENCE	MODEL	DIAMETER (mm)		LENGTH	CHARGE (kg)	
		LEAST	MAXIMUM	(mm)		
TL2924	Nº 0OP	6	12	700	1200	■
TL2931	Nº 1OP	12	19	700	2200	■
TL5739	Nº 2OP	19	25	700	2800	■
TL5740	Nº 3OP	25	33	700	3300	■



The fibre optic grips are colour coded for easy identification



TL2689

The TL2689 cable and fault locator incorporates the latest advances in digital signal processing to allow easy, fast location of pipes and cables, faults in pipes and cables, depth, intensity of current in a cable, etc...

The components are made from extremely hard-wearing materials which will stand up to the harsh conditions in which they are used.

FEATURES:

- Digital readout of ohms and circuit continuity.
- Digital readout of voltage, if the line is energised.
- Locates phone wires, electricity cables and metal pipes.
- Determines the route and depth of any cable or metal pipe to which the transmitter is attached.
- Determines the route and the depth of energised and unenergised cables.
- Locates faults in unenergised cables.
- Identifies cables using the combination of transmitter and toroidal clamp connected to the receiver.

FEATURES:

- 4 active trace frequencies: 577 Hz, 8 KHz, 33 KHz, 133 KHz.
- 2 passive trace frequencies: 50/60 Hz, LF 15 KHz to 30 KHz
- 3 trace modes: Peak, null and differential.
- Output power: 3 W or 5 W with external 12 V dc connection.
- Battery life: 50 hours in typical use, for transmitter and receiver.



Transmitter
with connection
cables
and earth spike.

External 12 V dc
power cable,
for car lighter socket.

Receiver.

Toroidal clamp
for energized trace
and identification
of cables.



▶ TL1893 CARRYING CASE

LOCATORS AND MARKERS

TL5747

The 3M 1400 series locator/marker is similar to the Dynatel model 2273M. Ideal for underground networks. It includes the latest digital processing techniques, and is versatile enough to be used in a wide range of sectors such as electricity, gas, telecommunications, etc.

The components are made from extremely hard-wearing materials which will stand up to the harsh conditions in which they are used.

It is used with markers which pinpoint the position of every point which needs to be differentiated and marked.

The combination of electronic markers and locators makes it possible to draw an extremely precise map of the network.



Unique 10-digit digital ID. Information labels can be created with several lines and several characters per line. Data locking function.



Select the frequency according to the type of marker to be located.



NOTE

For more information, contact our Technical Department or request a demonstration.

TL5748 CARRYING CASE

