Locating Devices
For point and route location

To repair and recondition pipes and cables underground can be a costly, time consuming operation. Any company undertaking an underground engineering contract needs to ensure that the routing of any shaft can be quickly and safely identified.

Finding non-conductive pipes is significantly simplified and often, for the first time, made feasible by using the KATIMEX® locating systems. At the center of the unit is the Polykat® fiberglass profile, which has the benefit of an extremely high thrust stability allied to a small radius of curvature. This glass fibre profile contains copper wires which, by connecting a transmitter, emit a locatable signal along the entire rod length (route locating) or at the sonde at the end of the rod (point locating).

The signal emitted can be picked up to a depth of several meters dependent on the receiving equipment fitted and the local conditions. Units with a permanently fixed, passive sonde can be used for point and route locating e.g. where there is a pipe fault. Different diameters of the Polykat® fibreglass profile is available for various pipe diameters and the profile can be supplied in lengths up to 300 m.

Typical areas of application include all types of underground construction, for example gas and water installations, cable laying, drainage and empty pipe installations.

The KATIMEX® locating systems are now being used extensively in domestic installations. When it comes to renovations of retrofitting cable laying, the locating systems such as Kati® Blitz Locating 2.0 are valuable tools for locating pipe runs or blockages.
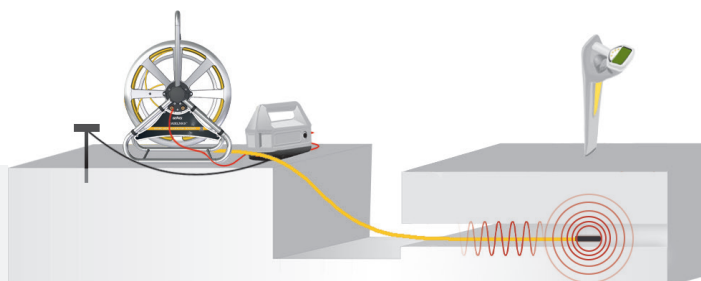
Locating Devices

Technical information:

KATIMEX® locating systems can be operated with all standard transmitting and receiving equipment that works in the kHz range. The transmitter is connected to the equipment via the connection box by means of plugs or clamps. The locating depths and levels of accuracy are influenced primarily by the equipment specific data of the location or cable-finding equipment (transmission power, sensitivity of the receiver) and by local circumstances (structures and nature of the soil/walls, interfering fieldsnce from other power sources etc.). KATIMEX® offers two versions of locating systems.
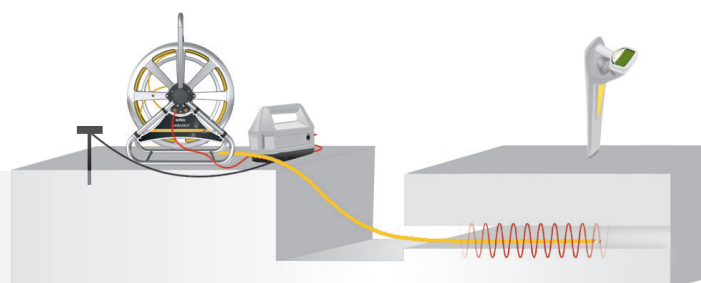

Locating Devices
for point and route locating

Point and route analysis can be primarily undertaken using this universal locating system. A sonde is attached at the beginning of the fibreglass rod. In combination with the transmitter, a magnetic field is generated that can be located up to several metres. Point location is used for locating defective points in pipeline systems such as blockages, sunken sections of pipe etc. The transmitter is connected to the connection box via two cables (see illustration). Route location is used for tracking entire pipe courses as the fiberglass rod is emits a locatable signal along the entire length of the rod. The transmitter is connected to the connection box via one cable whereas the 2nd cable is earthed.

Product advantages at a glance:
- Efficient: Point and Route Locating in one device
- Effective: NO SIGNAL LOSS - Frequent loss of time with batterie driven transmitter
- Easy handling: Just 1-person needed
- Well thought out: Compact steel frame with Polykat® fiberglass rod

Locating Devices
For route locating and cable pulling

Locating Devices for route locating can be used to track entire pipe courses. The transmission cable is connected between transmitter and locating rodder. The second connection of the transmitter is earthed (see illustration). This fibreglass rod contains copper wires that emit a locatable signal among the entire band length via the connection to the transmitter. Due to the rod ends the route locating devices can also be used for cable pulling. By means of the M12 to M10 adapters, additional commercially available battery driven transmitters can be connected.

Product advantages at a glance:
- Efficient: NO SIGNAL LOSS - frequent mistake with batterie driven transmitter
- Effective: 2in1 – cable pulling and route locating device (not available at point and route locating devices)
- Easy handling: Just 1-person needed
- Well thought out: Compact steel frame with Polykat® fiberglass rod

Locating Devices for point and route locating

Cablemax Sonde System 2.0

Cablemax Sonde System 2.0 - with slip ring and fix mounted, passiv sonde (8mm)

Usable for Point- and Route locating. Polykat® fiberglass profile (Ø 4.5 mm) with integrated copper wires within an aluminum reel and 2 connectors for connections to a transmitter (2-pole). Galvanized steel tube frame.

Breaking strain of rod: 10.3 kN, min. bending radius 200 mm, Measurements (LxWxH) 415x185x575 mm

length	weight	art.-no.
30m	5,5 kg	104050
40m	5,7 kg	104049
50m	6,0 kg	104051
60m	6,2 kg	104052
80m	6,7 kg	104053

Cablemax Sonde System 2.0 Spare Rod

Cablemax Sonde System 2.0 Spare Rod - with a fixed mounted, passiv sonde

Pre-assembled Polykat® fibreglass profile (Ø 4.5 mm) incl. sonde for self-assembly into the slip ring. Easy winding into the existing reel and connecting of the two wires in the slip ring (Tools required!)

Breaking strain of rod: 10.3 kN, min. bending radius 200 mm

length	weight	art.-no.
30m	0,80 kg	104031
40m	1,05 kg	104035
50m	1,30 kg	104032
60m	1,55 kg	104033
80m	2,05 kg	104034

Cablemax Sonde System

Cablemax Sonde System - with fix mounted, passiv sonde

Usable for Point- and Route locating. Polykat® fiberglass profile (Ø 4.5 mm) with integrated copper wires within an aluminum reel and connection box with socket and pins for two connections, (2-pole). Galvanized steel tube frame. With service bag.

Breaking strain of rod: 10.3 kN, min. bending radius 200 mm, Measurements (LxWxH) 415x185x575 mm

length	weight	art.-no.
30 m	5,1 kg	104054
50 m	5,8 kg	104055
60 m	6,0 kg	104056
80 m	6,7 kg	104058

Cablemax Sonde System Spare Rod

Cablemax Sonde System Spare Rod - with fix mounted, passiv sonde

Pre-assembled Polykat® fibreglass profile (Ø 4.5 mm) incl. sonde for self-assembly and integrated copper wires for point and route locating. Connection box with socket and pins for two connections (2-pole) - easy reeling into existing devices

Breaking strain of rod: 10.3 kN, min. bending radius 200 mm

length	weight	art.-no.
30 m	1,00 kg	104063
50 m	1,60 kg	104065
60 m	2,20 kg	104066
80 m	2,70 kg	104067

Locating Devices for route locating

Length counter

Length counter for Pipe Eel

For simple and quick measuring of underground ducts or pipes.
No inefficient marking, pacing out or measuring is required and accurate results are achieved using the length counter.

Dimensions [LxWxH]: 120 x 90 x 120mm

weight	art.-no.
0,68 kg	103050

Sonde systems

Sonde systems

Transmitter for tracking of non-metallic conduits and pipes.
Battery-operated, with thread M10, Adapter M12 to M10,
suitable for all Cablejet and Pipe Eel devices with M12 thread.

name	max.-depth	outer-Ø	weight	art.no.
Locating sonde	20 m	64 mm	0,275 kg	104027
Duct sonde	30 m	38 mm	0,200 kg	104068
Supersmall sonde	50 m	18 mm	0,100 kg	104047

Adapter

Adapter

Adapter for sondes for tracking of non-metallic conduits and pipes.

name	outer-Ø	weight	art.-no.
Adapter M12 to M10	22 mm	0,03 kg	104048
Adapter M12 to M10	42 mm	0,12 kg	104069

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Locating Devices for route locating and cable pulling

Kati® Blitz Locating 2.0
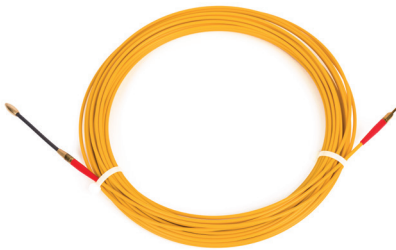
Kati® Blitz Locating 2.0

Usable for Route locating and cable pulling. Polykat® fibreglass profile (Ø 3.0 mm) with integrated copper wires, fitted with rod end with external M5 thread and integrated slip ring for tramsmitter connection (1 connection) and Service box with extensive accessoires

Breaking strain of rod 5kN, min. Bending radius 30mm, Dimensions [LxWxH]: 330 x 270 x 80 mm

length	weight	art.-no.
20 m	1,14 kg	104620
30 m	1,25 kg	104630
50 m	1,50 kg	104650

Spare Rod Kati® Blitz Locating 2.0

Spare Rod Kati® Blitz Locating 2.0

Polykat® fibreglass profile (Ø 3,0 mm) with integrated copper wires, rod ends 2.0 at both ends and brass with external thread M5 incl. guide head and pulling eye.

Breaking strain of rod 5kN, min. Bending radius 30mm

length	weight	art.-no.
20 m	0,30 kg	104320
30 m	0,45 kg	104330
50 m	0,70 kg	104350

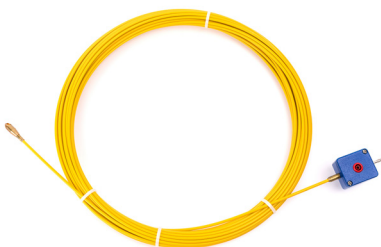## Cablemax 2in1

Cablemax 2in1

Polykat® fibreglass profile Ø 4,5 mm with integrated copper wires

fitted with rod end with external M5 thread and attached flexible guide head Ø 7 mm, connection box for connecting transmitter (1 connection) galvanized steel frame with aluminium reel Ø 400 mm. With service bag.

Breaking strain of rod 10,3kN, min. Bending radius 100mm, Dimensions [LxWxH]: 415 x 185 x 575 mm

length	weight	art.-no.
30 m	5,1 kg	104085
60 m	7,0 kg	104087
80 m	7,8 kg	104088

Spare Rod Cablemax 2in1

Spare Rod Cablemax 2in1

Polykat® fibreglass profile Ø 4,5 mm with integrated copper wires fitted with rod end with external M5 thread and attached flexible guide head Ø 7 mm, connection box for connecting transmitter (1 connection) Easy reeling in to exisisting devices, simple re-fitting of existing cable pulling devices.

Breaking strain of rod 10,3kN, min. Bending radius 100mm

length	weight	art.-no.
30 m	1,0 kg	104090
60 m	2,1 kg	104092
80 m	2,6 kg	104093

KATIMEX®
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Locating Devices for route locating and cable pulling

Cablejet 2in1

Cablejet 2in1
Cable pulling device with detection function, Polykat® fibreglass profile Ø 7,4 mm with integrated copper wires fitted with rod end with external M12 and screwed-on guide head Ø 18 mm connection box for connecting transmitter (1 connection) galvanized steel frame with reel Ø 600 mm. With service bag.

Breaking strain of rod 28kN, min. Bending radius 190mm, Dimensions [LxWxH]: 630 x 230 x 630 mm

length	weight	art.-no.
30 m	8,60 kg	104095
60 m	9,80 kg	104097
90 m	13,7 kg	104099
120 m	15,9 kg	104098

Spare Rod Cablejet 2in1

Spare Rod Cablejet 2in1
Polykat® fibreglass profile Ø 7,4 mm with integrated copper wires fitted with rod end with external M12 and screwed-on guide head Ø 18 mm connection box for connecting transmitter (1 connection)
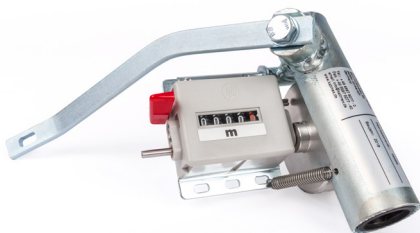
Easy reeling in to existing devices and simple re-fitting of existing cable pulling devices.

Breaking strain of rod 28kN, min. Bending radius 190mm

length	weight	art.-no.
30 m	4,40 kg	104100
60 m	6,50 kg	104102
90 m	8,30 kg	104104
120 m	10,20 kg	104106

Length counter for Cablejet

Length counter for Cablejet
for simple and quick measuring of ducts. No inefficient marking, pacing out or measuring is required and accurate results are achieved using the length counter

Dimensions [LxWxH]: 220 x 140 x 155 mm

weight	art.-no.
0,75 kg	103049

KATIMEX®
CABLING ENABLED

Locating Devices for route locating and cable pulling

Pipe Eel 2in1

Pipe Eel 2in1

Cable pulling device with detection function, Polykat® fibreglass profile (Ø 9 and 11 mm) with integrated copper wires fitted with rod end with external M12 and screwed-on guide head Ø 18 mm connection box for connecting transmitter (1 connection), galvanized steel frame with reel Ø 1000 mm, portable roller supported rod guidance. With service bag.

length 9mm*	weight	art.-no.
40 m	16,6 kg	104151
60 m	18,5 kg	104152
80 m	19,5 kg	104196
100 m	21,5 kg	104197
120 m	23,5 kg	104198
150 m	26,5 kg	104199

Breaking strain of rod* 40kN, min. Bending radius 240mm
Dimensions [LxWxH]: 780 x 380 x 830 mm

length 11 mm**	weight	art.-no.
150 m	37 kg	104115
200 m	43 kg	104116
250 m	49 kg	104117
300 m	58 kg	104118

Breaking strain of rod** 65kN, min. Bending radius 390mm
Dimensions [LxWxH]: 960 x 370 x 1010 mm

Spare Rod Pipe Eel 2in1

Spare Rod Pipe Eel 2in1

Polykat® fibreglass profile (Ø 9 and 11 mm) with integrated copper wires, fitted with rod end with external M12 and screwed-on guide head Ø 18 mm connection box for connecting transmitter (1 connection)

Easy reeling in to existing devices and simple re-fitting of existing cable pulling devices.

length 9 mm*	weight	art.-no.
40 m	4,1 kg	104138
60 m	6,2 kg	104145
80 m	7,5 kg	104146
100 m	10,1 kg	104147
120 m	11,5 kg	104148
150 m	14,8 kg	104149

Breaking strain of rod* 40kN, min. Bending radius 240mm

length 11 mm**	weight	art.-no.
150 m	22 kg	104120
200 m	28 kg	104121
250 m	34 kg	104122
300 m	40 kg	104123

Breaking strain of rod** 45kN, min. Bending radius 390mm

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Locating Devices for point and route locating

Connection adapter

Cablemax Connection adapter for clips

The brass adapter is used to connect the connection box of the Cablemax with the transmitter (2-pole) via clips. Suitable for all Katimex® Sonde Systems.

LxWxH(mm) 110x80x13 – 1 set = 2 pcs.

quantity	weight	art.-no.
1 SU = 2 pcs.	0,05 kg	104020

Cablejet Sonde System
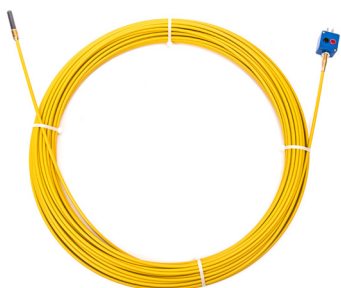
Cablejet Sonde System - with fix mounted, passiv sonde

Usable for Point- and Route locating. Polykat® fiberglass profile (Ø 7.4 mm) with integrated copper wires within an aluminum reel and connection box with socket and pins for two connections, (2-pole). Galvanized steel tube frame. With service bag.

Breaking strain of rod: 28kN, min. bending radius 190mm, [LxWxH]: 630 x 230 x 630 mm

length	weight	art.-no.
30 m	7,5 kg	104070
60 m	8,0 kg	104073
90 m	11,7 kg	104076
120 m	13,8 kg	107077

Cablejet Sonde System Spare Rod

Cablejet Sonde System Spare Rod - with fix mounted, passiv sonde

Pre-assembled Polykat® fibreglass profile (Ø 7.4 mm) incl. sonde for self-assembly and integrated copper wires for point and route locating. Connection box with socket and pins for two connections (2-pole)- easy reeling into existing devices.

Breaking strain of rod: 28kN, min. bending radius 190mm

length	weight	art.-no.
30 m	4,60 kg	104078
60 m	6,00 kg	104080
90 m	6,30 kg	104082
120 m	8,40 kg	104084

Pipe Eel Sonde System

Pipe Eel Sonde System

Usable for Point- and Route locating. Polykat® fiberglass profile (Ø 9 mm) with integrated copper wires within an aluminum reel and connection box with socket and pins for two connections, (2-pole). Galvanized steel tube frame. With service bag.

Breaking strain of rod 40kN, min. bending radius 240mm, [LxWxH]: 780 x 380 x 830 mm

length	weight	art.-no.
80 m	19 kg	104174
100 m	23 kg	104175
120 m	25 kg	104176
140 m	28 kg	104177