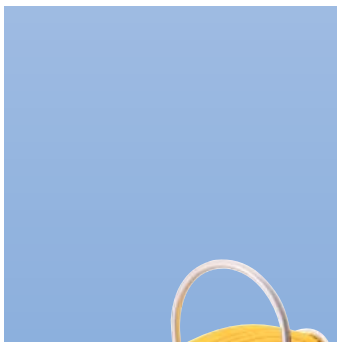
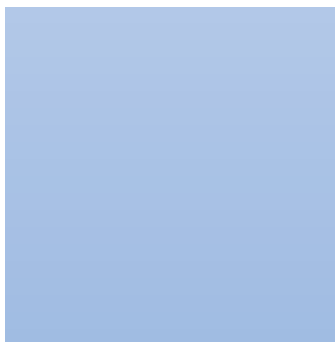
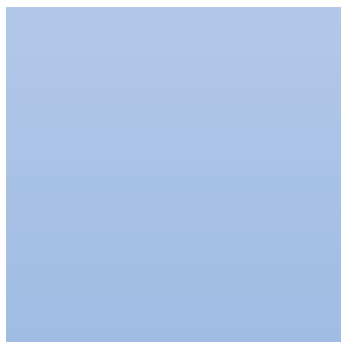
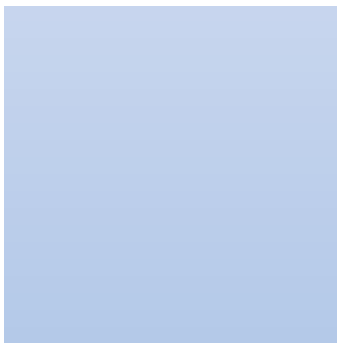


Conduit rods

Duct and cable locating devices

220





Conduit rods, duct and cable locating devices

Conduit rods yellow, D 4,5-11 mm

Conduit rods yellow, D 15 mm

Spare conduit rods yellow, D 4,5-11 mm

Spare conduit rods yellow, D 15 mm

Detecting conduit rods red, D 4,5-11 mm

Detecting conduit rods red, D 15 mm

Spare detecting rods red, D 4,5-11 mm

Spare detecting rods red, D 15 mm

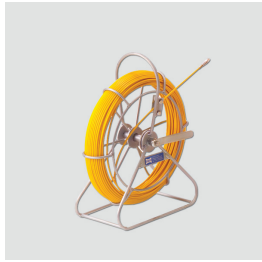
Conduit rod pushing unit on trailer

Guide tips, connectors, catching hooks and length meter

Accessory and using parts to conduit rods

Reels only to conduit rods, D 350-1500 mm

Cable and pipe detection equipment



Conduit rods D 4,5 mm with reel

Conduit rod, highest quality of reinforced fibre rod with PP-covering. For pushing through conduits and pulling-in of winch ropes or light cables. On galvanized reel with safety brake. Including guide tip of aluminium D 11/M5. Without wheels. The core of this rod is reinforced by 27 % additional glass fibres. This leads to a higher pushing stability and also to higher breaking resistance.

Code	Type	D/m	Alu-tip-D	Reel-D	D-ID	kg
211090	RS 4,5-40	4,5/40	11/M5	350	to 50	3,50
211130	RS 4,5-60	4,5/60	11/M5	350	to 50	4,00
211170	RS 4,5-80	4,5/80	11/M5	350	to 50	4,40



Conduit rods D 6,5 mm with reel

Conduit rod, highest quality of reinforced fibre rod with PP-covering. For pushing through conduits and pulling-in of winch ropes or light cables. On galvanized reel with safety brake. Including guide tip of aluminium D 11/M5. Without wheels. The core of this rod is reinforced by 27 % additional glass fibres. This leads to a higher pushing stability and also to higher breaking resistance.

Code	Type	D/m	Alu-tip-D	Reel-D	D-ID	kg
213523	RS 6,5-40	6,5/40	12/M8	600	to 60	7,10
213563	RS 6,5-60	6,5/60	12/M8	600	to 60	8,10
213603	RS 6,5-80	6,5/80	12/M8	600	to 60	9,10



Conduit rods D 9-11 mm with reel

Conduit rod, highest quality of reinforced fibre rod with PP-covering. For pushing through conduits and pulling-in of winch ropes or light cables. Including guide tip of aluminium D 25/M12 and shackle. On galvanized reel with safety brake. With 2 wheels. The core of this rod is reinforced by 27 % additional glass fibres. This leads to a higher pushing stability and also to higher breaking resistance.

Code	Type	D/m	Alu-tip-D	Reel-D	D-ID	kg
215103	RS 9-40	9,0/40	25/M12	800	to 120	18,10
215163	RS 9-60	9,0/60	25/M12	800	to 120	20,40
215243	RS 9-80	9,0/80	25/M12	800	to 120	22,55
215303	RS 9-100	9,0/100	25/M12	800	to 120	24,80
215363	RS 9-120	9,0/120	25/M12	800	to 120	26,90
215373	RS 9-120	9,0/120	25/M12	1000	to 120	34,70
221463	RS 11-150	11,0/150	25/M12	1000	to 200	45,50
221603	RS 11-200	11,0/200	25/M12	1000	to 200	53,50
221613	RS 11-200	11,0/200	25/M12	1200	to 200	59,00
221763	RS 11-250	11,0/250	25/M12	1200	to 200	67,10
221913	RS 11-300	11,0/300	25/M12	1200	to 200	75,20



Conduit rods D 15 mm with reel

Conduit rod, highest quality of reinforced fibre rod with PP-covering. For pushing through conduits and pulling-in of winch ropes or light cables. Including guide tip of aluminium D 25/M12 and shackle. On galvanized reel with safety brake. With 2 wheels. The core of this rod is reinforced by 27 % additional glass fibres. This leads to a higher pushing stability and also to higher breaking resistance.

The position of the rod entry and exit guiding can easily be changed from the upper or lower part of the reel or vice versa.

Code	Type	D/m	Alu-tip-D	Reel-D	D-ID	kg
224200	RS 15-200	15,0/200	25/M12	1500	to 400	126,00
224220	RS 15-250	15,0/250	25/M12	1500	to 400	141,00
224240	RS 15-300	15,0/300	25/M12	1500	to 400	157,00
224260	RS 15-350	15,0/350	25/M12	1500	to 400	171,00
224280	RS 15-400	15,0/400	25/M12	1500	to 400	186,00



Spare rods D 4,5-11 mm

Spare conduit rod yellow, without reel, highest quality of reinforced fibre rod with PP-covering. On ring with alu guide tip. From diam. 9 with shackle. The core of this rod is reinforced by 27 % additional glass fibres. This leads to a higher pushing stability and also to higher breaking resistance.

Code	Type	D/m	Alu-tip-D	kg
211590	ES 4,5-40	4,5/40	11/M5	1,25
211630	ES 4,5-60	4,5/60	11/M5	1,85
211670	ES 4,5-80	4,5/80	11/M5	2,45
214523	ES 6,5-40	6,5/40	12/M8	2,10
214563	ES 6,5-60	6,5/60	12/M8	3,10
214603	ES 6,5-80	6,5/80	12/M8	4,10
217103	ES 9-40	9,0/40	25/M12	4,70
217163	ES 9-60	9,0/60	25/M12	6,80
217243	ES 9-80	9,0/80	25/M12	9,10
217313	ES 9-100	9,0/100	25/M12	11,30
217373	ES 9-120	9,0/120	25/M12	13,45
223463	ES 11-150	11,0/150	25/M12	24,40
223613	ES 11-200	11,0/200	25/M12	32,40
223763	ES 11-250	11,0/250	25/M12	40,50
223913	ES 11-300	11,0/300	25/M12	48,50

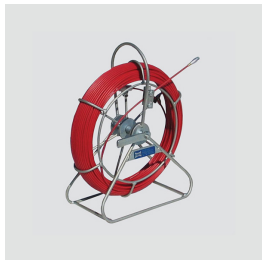


Spare rods D 15 mm

Spare conduit rod yellow, without reel, highest quality of reinforced fibre rod with PP-covering. On ring with alu guide tip. From diam. 9 with shackle. The core of this rod is reinforced by 27 % additional glass fibres. This leads to a higher pushing stability and also to higher breaking resistance.

- The spare rods are delivered as rings tied off with cable ties.
- There is a high and dangerous spring tension when opening the ring.
- For safety reasons we do not supply 15 mm rods as rings.
- For winding-in 15 mm rods into empty reels a special machine is needed.
- Therefore the winding-in process can only be done at the Vetter premises.
- We request you to provide us with the suitable empty reel
- Please contact our sales department in order to organize a smooth processing.

Code	Type	D/m	Alu-tip-D	kg
224372	ES 15-200	15,0/200	25/M12	60,30
224374	ES 15-250	15,0/250	25/M12	75,30
224376	ES 15-300	15,0/300	25/M12	90,30
224378	ES 15-350	15,0/350	25/M12	105,00
224380	ES 15-400	15,0/400	25/M12	120,00



Detecting rods D 4,5 mm with reel

Detecting red conduit rods, highest quality of reinforced fibre rod with PP-covering. With alu-tip. For route detection with copper conductors, on galvanized reel with safety brake. Can also be used for pulling-in of winch ropes or light cables. Including connector for micro-transmitter with thread M5. The core of this rod is reinforced by 27 % additional glass fibres. This leads to a higher pushing stability and also to higher breaking resistance.

Code	Type	D/m	Alu-tip-D	Reel-D	CU	D-ID	kg
225003	ORS 4,5-40	4,5/40	11/M5	350	4 cond.	to 50	3,80
225005	ORS 4,5-60	4,5/60	11/M5	350	4 cond.	to 50	4,40
225007	ORS 4,5-80	4,5/80	11/M5	350	4 cond.	to 50	5,00
225034	ORS 7,4-40	7,4/40	25/M12	600	6 cond.	to 80	8,10
225036	ORS 7,4-60	7,4/60	25/M12	600	6 cond.	to 80	9,50
225038	ORS 7,4-80	7,4/80	25/M12	600	6 cond.	to 80	10,90
225040	ORS 7,4-100	7,4/100	25/M12	800	6 cond.	to 80	18,60
225205	ORS 9,0-60	9,0/60	25/M12	800	6 cond.	to 120	19,80
225207	ORS 9,0-80	9,0/80	25/M12	800	6 cond.	to 120	21,80
225209	ORS 9,0-100	9,0/100	25/M12	800	6 cond.	to 120	23,80
225211	ORS 9,0-120	9,0/120	25/M12	800	6 cond.	to 120	25,80
225250	ORS 11,0-150	11,0/150	25/M12	1000	6 cond.	to 200	44,20
225254	ORS 11,0-200	11,0/200	25/M12	1000	6 cond.	to 200	51,70
225258	ORS 11,0-250	11,0/250	25/M12	1200	6 cond.	to 200	64,70
225262	ORS 11,0-300	11,0/300	25/M12	1200	6 cond.	to 200	72,10



Detecting rods D 15 mm with reel

Detecting red conduit rods, highest quality of reinforced fibre rod with PP-covering. For route detection with copper conductors: Included alu tip with shackle. On galvanized reel with safety brake. Can also be used for pulling-in of winch ropes or light cables. Including connector for transmitter. The core of this rod is reinforced by 27 % additional glass fibres. This leads to a higher pushing stability and also to higher breaking resistance.

The position of the rod entry and exit guiding can easily be changed from the upper or lower part of the reel or vice versa.

Code	Type	D/m	Alu-tip-D	Reel-D	CU	D-ID	kg
225302	ORS 15,0-200	15,0/200	25/M12	1500	6 cond.	to 400	121,00
225303	ORS 15,0-250	15,0/250	25/M12	1500	6 cond.	to 400	136,00
225304	ORS 15,0-300	15,0/300	25/M12	1500	6 cond.	to 400	150,00
225305	ORS 15,0-350	15,0/350	25/M12	1500	6 cond.	to 400	165,00
225306	ORS 15,0-400	15,0/400	25/M12	1500	6 cond.	to 400	180,00



Spare detecting rods D 4,5-11 mm

Spare detecting rod red, highest quality of reinforced fibre rod with PP-covering, with copper conductors for detection. Including connector for transmitter. The core of this rod is reinforced by 27 % additional glass fibres. This leads to a higher pushing stability and also to higher breaking resistance.

Code	Type	D/m	Alu-tip-D	CU	kg
225011	OES 4,5-40	4,5/40	11/M5	4 cond.	1,25
225013	OES 4,5-60	4,5/60	11/M5	4 cond.	1,90
225015	OES 4,5-80	4,5/80	11/M5	4 cond.	2,50
225045	OES 7,4-40	7,4/40	25/M12	6 cond.	3,00
225047	OES 7,4-60	7,4/60	25/M12	6 cond.	4,40
225049	OES 7,4-80	7,4/80	25/M12	6 cond.	5,80
225051	OES 7,4-100	7,4/100	25/M12	6 cond.	7,20
225218	OES 9,0-60	9,0/60	25/M12	6 cond.	6,20
225220	OES 9,0-80	9,0/80	25/M12	6 cond.	8,20
225222	OES 9,0-100	9,0/100	25/M12	6 cond.	10,30
225224	OES 9,0-120	9,0/120	25/M12	6 cond.	12,30
225268	OES 11,0-150	11,0/150	25/M12	6 cond.	22,80
225272	OES 11,0-200	11,0/200	25/M12	6 cond.	30,30
225276	OES 11,0-250	11,0/250	25/M12	6 cond.	37,80
225280	OES 11,0-300	11,0/300	25/M12	6 cond.	45,20



Spare detecting rods D 15 mm

Spare detecting rod red, highest quality of reinforced fibre rod with PP-covering, with copper conductors for detection. On ring with alu guide tip. From diam. 9 with shackle. Including connector for transmitter. The core of this rod is reinforced by 27 % additional glass fibres. This leads to a higher pushing stability and also to higher breaking resistance.

- The spare rods are delivered as rings tied off with cable ties.
- There is a high and dangerous spring tension when opening the ring.
- For safety reasons we do not supply 15 mm rods as rings.
- For winding-in 15 mm rods into empty reels a special machine is needed.
- Therefore the winding-in process can only be done at the Vetter premises.
- We request you to provide us with the suitable empty reel
- Please contact our sales department in order to organize a smooth processing.

Code	Type	D/m	Alu-tip-D	CU	kg
225292	OES 15,0-200	15,0/200	25/M12	6 cond.	60,20
225293	OES 15,0-250	15,0/250	25/M12	6 cond.	75,40
225295	OES 15,0-300	15,0/300	25/M12	6 cond.	90,40
225296	OES 15,0-350	15,0/350	25/M12	6 cond.	105,40
225297	OES 15,0-400	15,0/400	25/M12	6 cond.	120,40



Rod pushing and pulling unit on trailer

This rod pushing and pulling unit is used for introducing rods through empty or occupied conduits. The strong hydraulic driven cable feeder is able to force a high push and pull with its long steel chains equipped with neoprene profiles. The special strong rod of 15 mm in selectable in lengths between 300 to 400 m, guarantees a very high pushing stability. The reel for the rod and the length measuring counter are included in the pushing unit, but the rod itself has to be ordered by the wished length. If blockages or damages are suspected in the ducts the use of a red detectable rod with copper conductors is recommendable. This enable the duct line to be followed by a detector and to find the blockades, see table below.

The pushing unit can be mounted on a trailer either with canvas cover or with hard box or on any other vehicles. Details see below.

Code	Type	Designation	Configuration	
224000	---	Pushing unit fix on trailer	See details below.	0,00



Rod pushing units

This pushing unit is either for fix mounting on one of the trailer either with canvas cover or with hard box, or is mounted on a base frame. The unit can work independent stationary or be pulled into the trailer to work as a mobile device. The reel and the length measuring counter for the rod are included, the selected length between 300-400 m of the rod has to be ordered separately, see table below.

To work with the unit on base frame without trailer, the 4 outriggers have to be retracted and the whole unit must be secured against a pull or push of at least 250 daN.

This version presents the following advantages:

- The pushing unit can easily be pulled out or into the trailer without mounting work.
- Afterwards the trailers can be used for any other transports.
- The pulled out unit can provide the same performance without the trailer.
- The complete unit can be mounted on different other platforms.
- Rod feeder optional with petrol engine or electric hydraulic power pack
- With rod reel including length meter. Without rod to order separately acc. wished length
- Dimension of the pushing unit on base frame 2500/1290/1700 mm

Code	Type	Designation	Push/Pull	m/min.	kg
224320	RSA 15	Pushing unit	250/200 daN	8-50	235,00
224330	RSAG 15	Base frame RSA 15	---	---	54,00
224360	Surcharge	For base plate	---	---	8,70

Trailer for conduit pushing units

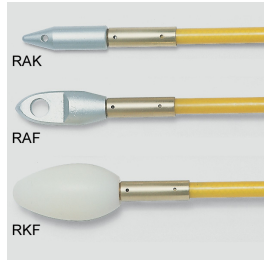
Trailer with canvas cover (flat bed trailer). Aluminium platform gate, to rise on the right side and on the rear by pneumatic springs. These protect personnel from weather and humidity.

Trailer with hard body box (flat bed trailer). Box made 17 mm thick Plywood, inside and outside coated by white GFK. To rise on the right side and on the rear by pneumatic springs. These protect personnel from weather and humidity. Mounting the pushing unit as above mentioned.

Both trailers are equipped with a straight drawing bar with overrun brake and a ball coupling and two rear outriggers. Each mounted device can be dismantled from the trailer and be used individual for any other work.

- Trailer, canvas cover L/W/H: 3950/1830/2300, straight drawing bar, overrun brake, coupling height 450
- Trailer, hard body box L/W/H: 2950/2080/2420, V-shaped drawing bar, overrun brake, coupling height 450

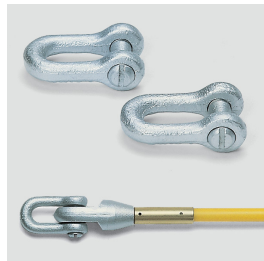
Code	Type	Trailer	Tot. weight	kg
022430001	1226/13	Canvas cover	1200 kg	350,00
022431001	12738/13	Hard body box	1300 kg	550,00
022430101	Surcharge	Four lashing points	on trailers	5,00
034919120	Surcharge	Anti-theft device	on trailers	1,00



Guide tips

Guide tip for easy sliding through the pipes. Made of alu or polyamide.

Code	Type	D/Thread	For RS	Mat.	kg
226320	RAK 11	11/M 5	4,5	Alu	0,01
226350	RAK 12	12/M 8	6,5	Alu	0,01
226380	RAK 17	17/M 12	9-15	Alu	0,02
226400	RAF 25	25/M 12	9-15	Alu	0,05
226410	RKF 28	28/M 12	9-15	Poly.	0,08
226420	RKF 40	40/M 12	9-15	Poly.	0,14



Shackle

Shackle for guide tip RAF 25, special slim version with slotted screw

Code	Type	Bolt-D	Opening	kg
226440	RSL 10	10	14	0,09



Guide ball

Guide balls for easy sliding through the pipes. Made of PE.

Code	Type	D/Thread	For RS	Mat.	kg
226423	RFK 70	70/M 12	9-15	PE	0,14
226424	RFK 75	75/M 12	9-15	PE	0,16
226425	RFK 85	85/M 12	9-15	PE	0,18



Guide roller

Guide roller easy pushing through in occupied conduits. Suitable to all rods D 9-11 mm, including guide tips for screwing on the rods.

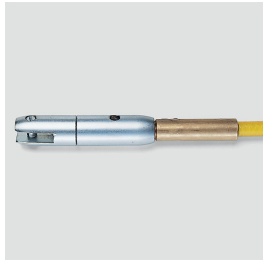
Code	Type	D/Thread	For RS	Mat.	kg
226430	RFR 50	50/M 12	9-15	Alu	0,21



Connectors

Connecting swivel for coupling of two or more conduit rods.

Code	Type	D/L/Thread	For RS	kg
226160	RSK 12	12x55/M 8	6,5	0,04
226170	RSK 18	18x80/M 12	9-15	0,11



Guide swivel

Guide swivel for conduit rods, for twist-free pulling of winch ropes or cables. Steel galvanized.

Code	Type	D/L/Thread	For RS	kg
226390	RSW 18	18x80/M 12	9-15	0,13



Catch hooks

Catch hook, very light version of alu for pushing two conduit rods from opposite parts. When they meet, the catch hooks couple automatically.

Code	Type	D-ID	Thread	kg
226180	RSF 35	40-50	M 12	0,50



Catch hooks

Catch hook, very light version of steel for pushing two conduit rods from opposite parts. When they meet, the catch hooks couple automatically.

Code	Type	D-ID	Thread	kg
226200	RSF 50	50-80	M 12	0,40
226210	RSF 100	80-100	M 12	0,80



Length meter

Length meter for conduit rods. Protected mounted in the interior space of the reel. Tolerance +/-0,5 %. Retrofitting on existing reels is possible.

Code	Type	For rod-D	Suitable for	kg
226140	RLM 600	4,5-7,4	Reel-D 600	0,80
226150	RLM 911	6,5-11,0	Reel-D 800-1200	0,65



Set of screw and joint brass sockets

Set of screw and joint brass sockets with adhesive for rods

Code	Type	For RS	Sleeves	kg
226500	RPS 4	RS 4,5	3 screw, 2 joint socket	0,12
226530	RPS 6	RS 6,5	1 screw, 1 joint socket	0,09
226545	RPS 7	RS 7,4	1 screw, 1 joint socket	0,10
226590	RPS 9	RS 9,0	1 screw, 1 joint socket	0,15
226633	RPS 11	RS 11,0	1 screw, 1 joint socket	0,15
226653	RPS 15	RS 15,0	1 screw, 1 joint socket	0,20



Screw brass sockets

Screw brass socket with thread for conduit rods

Code	Type	Thread	For RS	OD/L	kg
226470	RPA 3	M 5	RS 3,0	6/16	0,01
226480	RPA 4	M 5	RS 4,5	6/18	0,01
226510	RPA 6	M 8	RS 6,5	9/45	0,02
226540	RPA 7	M 12	RS 7,4	12/41	0,02
226570	RPA 9	M 12	RS 9,0	13/58	0,05
226613	RPA 11	M 12	RS 11,0	13/58	0,05
226643	RPA 15	M 12	RS 15,0	15/75	0,07



Joint brass sockets

Joint brass socket, without adhesive, for conduit rods

Code	Type	For RS	OD/L	kg
226490	RPV 4	RS 4,5	6/24	0,01
226520	RPV 6	RS 6,5	9/50	0,02
226542	RPV 7	RS 7,4	10/42	0,03
226580	RPV 9	RS 9,0	13/60	0,05
226623	RPV 11	RS 11,0	13/60	0,05
226648	RPV 15	RS 15,0	18/85	0,08



Adhesive

Mixed adhesive, high tensile strength, for brass sockets of all conduit rods

Code	Type	Adequate for	kg
226785	RPK 33	16 bondings	0,05



Service-Set for detecting rods

Service-set for detecting rods ORS, 1 screw socket and 1 joint socket, with adhesive.

Code	Type	For ORS	Sleeves	kg
225321	RPO 4	D 4,5	3 screw, 2 joint, 1 shrink hose	0,14
225323	RPO 7	D 7,4	1 screw, 1 joint, 1 shrink hose	0,20
225324	RPO 9	D 9,0	1 screw, 1 joint, 1 shrink hose	0,25
225325	RPO 11	D 11,0	1 screw, 1 joint, 1 shrink hose	0,25
225326	RPO 15	D 15,0	1 screw, 1 joint, 1 shrink hose	0,27



Duct transmitter on rods

Duct transmitter for screwing on conduit rods yellow or red of D 6,5-15 mm.

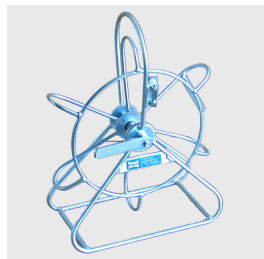
Code	Type	Frequ.	D/L	Thread	Depth	Capac.	kg
231623	RD 18N	33 kHz	18/88	M 10	8,0 m	20h	0,27
231627	RD 39	33 kHz	39/120	M 10	5,0 m	8h	0,18
231628	RD 64	33 kHz	64/150	M 10	8,0 m	15h	0,34



Grounding head

Grounding head D 22x45, M12/M10, Alu, for additional. spot detection with transmitter D 18

Code	Type	Diam.	For transmitt.	Thread	kg
225310	ERK 22	22	RD 18	M 12 to 10	0,03
225312	ERK 42	42	RD 39	M 12 to 10	0,10



Reel only to rods

Reel only to conduit rod, steel galvanized, with safety reel brake, without wheels.

Code	Type	Reel-D	For RS	L max.	L/W/H mm	kg
226010	RSH 350	350	4,5	80 m	320/170/430	2,45
226020	RSH 600	600	6,5	80 m	550/240/690	4,90



Reel only to rods

Reel only to conduit rod, steel galvanized, with safety reel brake, with 2 wheels.

Code	Type	Reel-D	For RS	L max.	L/W/H mm	kg
226070	RSH 800	800	9	120 m	755/405/915	11,20
226090	RSH 1000	1000	9/11	120/200 m	985/525/1150	21,40
226120	RSH 1200	1200	11	300 m	1185/540/1345	26,80
226130	RSH 1500	1500	15	400 m	1570/753/1561	66,00



Cable and duct detector

Cable and duct detector for precise localisation down to a depth of 4,50 m. Complete. set. Frequency 33 kHz, consisting of:

- Detector with digital and optic-acoustical display.
- Depth determination including transmitter with earthing cable.
- Plastic tool bag for complete equipment.

Code	Type	Frequency	Power	Depth	kg
231615	CAT4+G	33 kHz,	0,12 Watt	to 4,0 m	5,20



Detector for blocked calibres

Locating device with 2 batteries, for locating blown-in calibres in cable protection pipes or in subducts (micro pipes), as well as for locating non-metallic pipelines and blockages with the pipe coils, yellow or red D 4.5-11. There are the following possible applications:

- For detecting blocked calibre in cable conduits or in subducts
- Yellow conduit rod with screwed on duct transmitter RD 18 for spot detection
- Red conduit rod with screwed on duct transmitter RD 18 for spot detection
- Red conduit rod to transmitted by CAT SEN4, for line detection.
- Red ORS with CAT SEN4 and screwed on transmitter RD 18 for line and spot detection.

Code	Type	Frequency	Transmitter	L/W/H mm	kg
231611	CAT4+	33 kHz,	without	255/70/725	2,80



Transmitter for detectors

Transmitter with connecting cable as extension of RKV 40, which than can be used as cable and duct detecting equipment.

Code	Type	Frequency	Power	L/W/H mm	kg
231613	Genny4	33 kHz,	0,12 Watt	280/180/220	2,80



Clamp with cable for CAT SEN

Clamp with cable for CAT SEN, for induction of life cables.

Code	Type	Cable to	kg
2316195	CAZ 48	D 48	0,40
2316193	CAZ 98	D 98	0,50