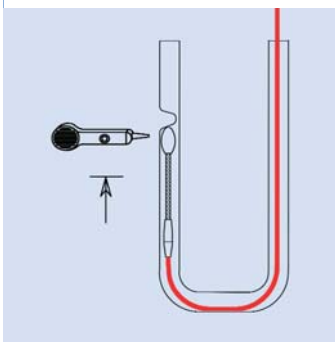
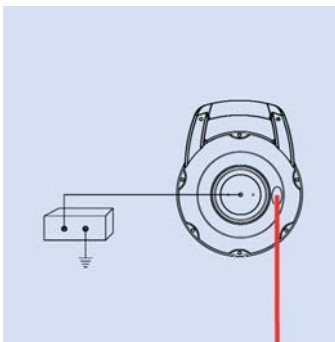
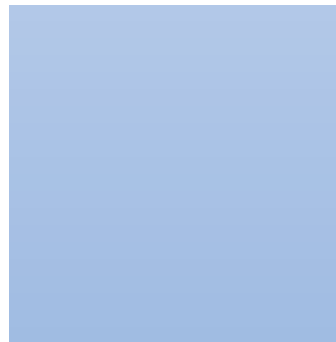
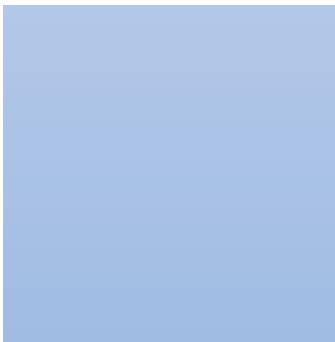
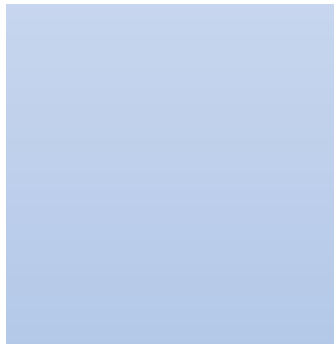


## Mini conduit rods for electric installation

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## **Mini conduit rods and accessory**

**Mini-conduit rods yellow, D 3,0 mm**

**Mini-conduit detecting rods red, D 3,0 mm**

**Accessory and using parts to all mini-rods**

**Nylon and steel pull-in tapes D 4 mm**

**Conduit rods yellow, D 4,5-6,5 mm**

**Accessory and using parts to conduit rods D 4,5-6,5 mm**

**Detecting conduit rods red, D 4,5 mm**

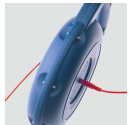


### Mini-rod yellow

Mini-rod yellow. Highest quality of reinforced fibre rod with PP-covering. Cable pull-in tool complete equipped in plastic housing. Rod-D 3,0 mm, without copper conductors, not for detection, see red Mini-rods. Packed in single box. The core of this rod is reinforced by 10 % additional glass fibres. This leads to a higher pushing stability especially in ducts M 20. Furthermore the breaking resistance is higher. The following accessory is supplied with the Mini Rod:

- 1 Spring guided tip D 7 and 1 pc. D 10.
- 1 cable grip with brass eye for C-D 6- 9.
- 1 Pulling rubber disc D 75.
- 1 Service-set different parts with instruction.

Code	Type	D/m	Housing	Carton	kg
211004	RS 3-30	3/30	320x250x80	350x290x90	1,26
211006	RS 3-50	3/50	320x250x80	350x290x90	1,50



### Mini-rod red

Mini-rod red, highest quality of reinforced fibre rod with PP-covering. Cable pull-in tool complete equipped in plastic housing. Rod-D 3,0 mm, with copper conductors for detection. Packed in single box. The core of this rod is reinforced by 10 % additional glass fibres. This leads to a higher pushing stability especially in ducts M 20. Furthermore the breaking resistance is higher. The following accessory is supplied with the Mini Rod:

- 1 Spring guided tip D 7 and 1 pc. D 10.
- 1 cable grip with brass eye for C-D 6- 9.
- 1 Pulling rubber disc D 75.
- 1 Service-set different parts with instruction.

Code	Type	D/m	Housing	Carton	kg
211031	ORS 3-30	3/30	320x250x80	350x290x90	1,30
211033	ORS 3-50	3/50	320x250x80	350x290x90	1,50



### Detection of multi ducts with average duct in the centre

Multi ducts can be detected in short distances through the average duct of dia. 12x2,0 or 14x2,0 mm laying in the centre. The micro transmitters SKS 06 of diam. 6.4 mm and SKS 07 of diam. 7.5 mm is screwed on the M5 thread of the mini-rod diam. 3 mm. The obtainable pushing length depends on the local condition but is limited anyway by the max. length of the mini rod of 50 m. Using lubricant relieves pushing and pulling back the transmitter. Detection depth in the ground is max. 2 m. The yellow or red mini rod can be used for inserting the micro transmitter.

Code	Type	Device	Subduct-ID	kg
231941	SKS 06	Micro transmitter	8-16	0,17
231954	SKS 07	Micro transmitter	9,8-16	0,01
231943	BAT 06	Battery set	---	0,04
231962	BAT 07	Battery set	---	0,01



## Locating device for non-metallic conduits

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



## Spare mini rod yellow

Spare mini-rod yellow, highest quality of reinforced fibre rod with PP-covering. D 3,0 mm, without copper conductors, not for detection, see red Mini-rods. Ring with 1 spring guiding head D 10 mm. The core of this rod is reinforced by 10 % additional glass fibres. This leads to a higher pushing stability especially in ducts M 20. Furthermore the breaking resistance is higher. The following accessory is supplied with the Mini Rod:

Code	Type	D/m	Ring-D	kg
211012	ES 3-30	3/30	230x35	0,47
211014	ES 3-50	3/50	230x35	0,68



## Spare mini rod red

Spare mini-rod red, highest quality of reinforced fibre rod with PP-covering, D 3,0 mm, with copper conductors for detection. Ring with 1 spring guiding head D 10 mm. The core of this rod is reinforced by 10 % additional glass fibres. This leads to a higher pushing stability especially in ducts M 20. Furthermore the breaking resistance is higher. The following accessory is supplied with the Mini Rod:

Code	Type	D/m	Ring-D	kg
211039	OES 3-30	3/30	230x35	0,46
211041	OES 3-50	3/50	230x35	0,66



## Accessories

Pulling disc of rubber for safe and careful pulling of the mini-rods.

Code	Type	D	For RS	kg
226290	MBZ 75	75	D 3-12	0,05



### Lubricant for indoor installation

Lubricant gel like, for smaller indoor installation cables, in battle. Up to 80 % friction reducing.

For lubrication unique and ultimate classification, Water pollution class - non-hazardous, acc. to VCI-Conception. Safety data sheets are available.

Code	Type	Package	Quantity	kg
235130	J-35V	Bottle	0,95 l	1,00



### Accessories

Guide tip with spring for mini-rods, length 87 mm, light tip of alu, for easy sliding through the ducts.

Code	Type	Set of	Thread	kg
226300	RFK 7	3 / D 7	M 5	0,13
226302	RFK 10	3 / D 10	M 5	0,13
226308	RFK 71	1 D 7+1 D 10	M 5	0,09



### Accessories

Pulling eyes for all mini-rods of D 3 mm, set of 3 pcs.

Code	Type	Pull eye-D	Thread	kg
226310	RZO 6	6	M 5	0,04



### Accessories

Pulling grips with eye M 5, for all rods of RS 3-4,5

Code	Type	C-D	Thread	kg
226312	RZS 6	4-6	M 5	0,02
226313	RZS 9	6-9	M 5	0,02
226314	RZS 12	9-12	M 5	0,02
226315	RZS 15	12-15	M 5	0,03



### Service-Set

Service-Set for all mini-rods D 3 mm, yellow and red, consisting of:

- 3 brass sockets
- 2 brass connecting sleeves
- 2 brass pulling eyes
- 1 high strength mixed adhesive
- 1 Instruction

Code	Type	Suitable for	kg
226476	RPS 3	all mini rods	0,10



### Perlon pull-in tape D 4 mm

Perlon pull-in tape D 4 mm, with leading spring and eye on both ends, ring packed in bag.

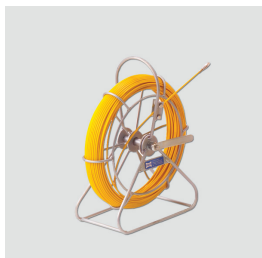
Code	Type	Length	kg
227802	PEB 405	5 m	0,09
227804	PEB 410	10 m	0,15
227806	PEB 415	15 m	0,21
227808	PEB 420	20 m	0,27
227810	PEB 425	25 m	0,34



### Steel pull-in tape D 4 mm

Steel pull-in tape D 4 mm with pulling eye, ring packed in bag.

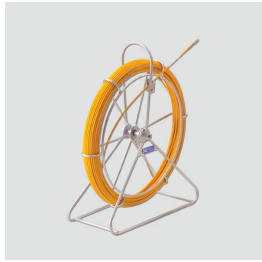
Code	Type	Length	kg
227842	SSP 405	5 m	0,37
227844	SSP 410	10 m	0,70
227846	SSP 415	15 m	1,03
227848	SSP 420	20 m	1,36
227850	SSP 425	25 m	1,70



### Conduit rods

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 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



## Spare rods

Spare conduit rod yellow, without reel, highest quality of reinforced fibre rod with PP-covering. On ring with alu guide tip. 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



## 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



## 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





## 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



## Detecting rods 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	Cond.	D-ID	kg
225003	ORS 4,5-40	4,5/40	11/M5	350	4	to 50	3,80
225005	ORS 4,5-60	4,5/60	11/M5	350	4	to 50	4,40
225007	ORS 4,5-80	4,5/80	11/M5	350	4	to 50	5,00



## Spare detecting rods

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	Cond.	kg
225011	OES 4,5-40	4,5/40	11/M5	4	1,25
225013	OES 4,5-60	4,5/60	11/M5	4	1,90
225015	OES 4,5-80	4,5/80	11/M5	4	2,50



## 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 socket	0,14