

CABLE WITH CLAMP

- SURGICAL TECHNIQUE
- IMPLANT 4.5250.600S
- INSTRUMENT SET 15.0506.101



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SYMBOLS DESCRIPTION

Ti	Titanium or titanium alloy	H	H length [mm]
Co	Cobalt		Angle
	Left	88 - 340	available lengths
R	Right	4-22	Available number of holes
LR	Available versions: left/right	1.8	Thickness [mm]
Len	Length	1:1	Scale 1:1
	Torx drive		Number of threaded holes in the shaft part of the plate
	Torx drive cannulated		Number of locking holes in the plate
	Hexagonal drive	VA	Variable angle
	Hexagonal drive cannulated		Cortical
\odot	Cannulated		Cancellous
	Locking	Ster Non Ster	Available in sterile/ non- sterile condition
	Diameter [mm]		Refer to surgical technique
\wedge	Caution - pay attention to a special procedure.		
	Perform the activity under X-Ray control.		
i	Information about the next stages of a procedure.		
	Proceed to the next stage.		
	Return to the specified stage and repeat the activity.		
	Before using the product, carefully read the Instructions for Use. It cand warnings related to the use of the product.	ontains, among	others, indications, contraindications, side effects, recommendations
	The above description is not a detailed instruction of conduct. The surgeon decides about choosing the operating procedure.		

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The manufacturer reserves the right to introduce design changes. Updated INSTRUCTIONS FOR USE are available at the following website: ifu.chm.eu



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1. INTRODUCTION

Cable with clamp (4.5250.600 Wire for cerclage with clamp-weave-2.0x600) is a multi-element implant intended for the stabilization of periprosthetic and long bone fractures. The presented range of implants is made of materials in accordance with ISO 5832 standards.

The set includes:

- implants (cable with clamp),
- instrument set used during surgery,
- surgical technique.

Indications

• stabilization of periprosthetic and long bone fractures.



Before using the product, carefully read the Instructions for Use. It contains, among others, indications, contraindications, side effects, recommendations and warnings related to the use of the product.



The above description is not a detailed instruction of conduct. The surgeon decides about choosing the operating procedure.

2. IMPLANT DESCRIPTION



Screw clamping mechanism

- reliable wire clamping
- correction of wire tension possible
- cobalt alloy for strength increase of the implant



Gentle edges and rounded head of the set screw

• reduced irritation of peri-implant tissues



Clamp shape

 optimal position of the clamp and cable on the bone



- Cable cutting system
 the cut end of cable hidden inside the clamp body
- no irritation of peri-implant tissues



Torx socket

• improved torque transmission



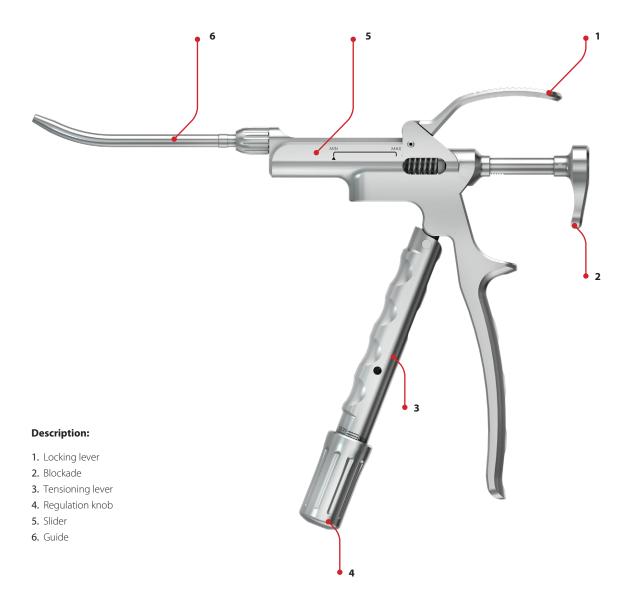
Comprehensive instrumentation

- a set of dedicated instruments
- intuitive tensioner
 an innovative guide that facilitates cabel insertion
- ergonomic design of devices
- compact and transparent stand



3. CABLE TESNIONER DESCRIPTION

Wire instrument [40.8268.000]

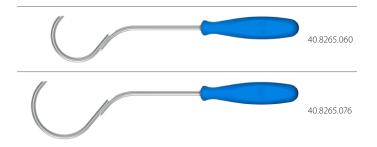


4. SURGICAL TECHNIQUE

4.1. GUIDE INSERTION

Use an appropriate guide depending on the bone size.

Insert the guide [40.8265.060] [40.8265.076] under the bone, turn until the blade passes through the tissue.





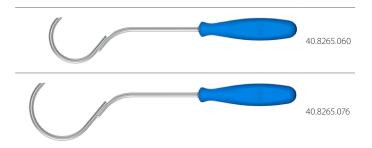
4.2. CABLE INSERTION

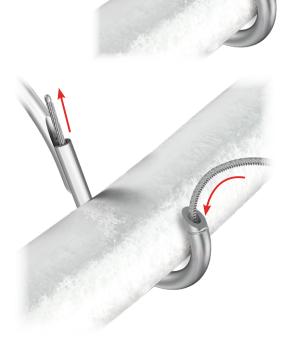
Insert the cable into the guide [40.8265.xxx] from the blade side.



CAUTION:

Do not insert the cable from the handle side of the guide - the removal of the guide will not be possible.





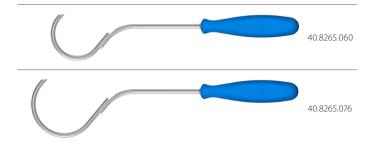


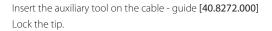
4.2.1. AUXILIARY TOOL USAGE

In case of difficulties with insertion of the cable into the guide hole it is recommended to use an auxiliary tool - a guide [40.8272.000].

PHASE 1

Insert the cable into the guide [40.8265.xxx] from the handle side.

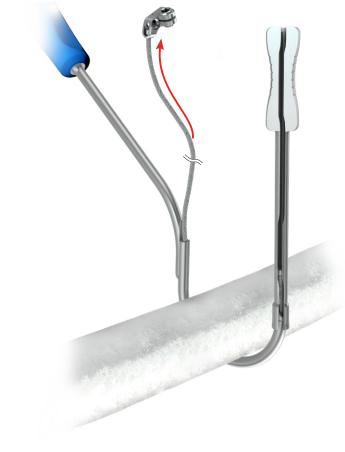






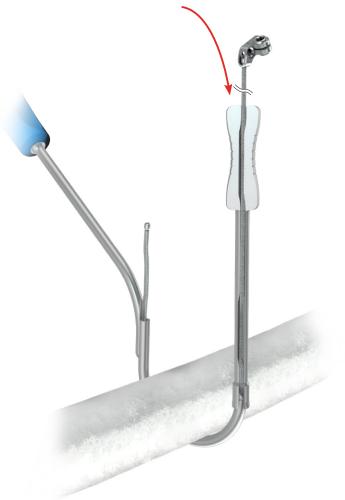


Remove the cable.

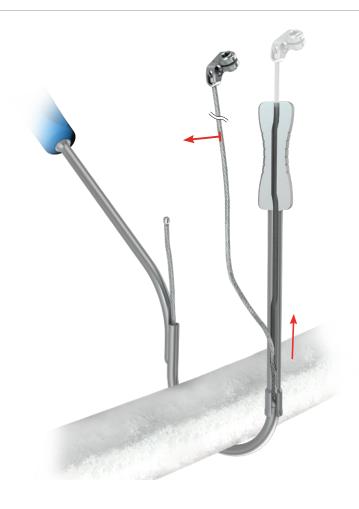


PHASE 2

Insert the cable through the auxiliary tool on the cable - guide [40.8272.000].



Remove the auxiliary tool - slide the cable through the side channel.



4.3. GUIDE REMOVAL

Remove the guide [40.8265.xxx] and leave the cable wrapped around the bone.





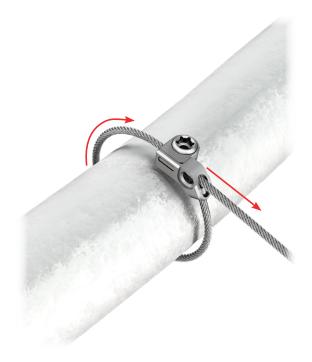
4.4. CLAMP POSITIONING ON THE BONE

Pass the cable through the clamp and position the latter properly. Pre-tension the cable.



CAUTION: Position the clamp ensuring easy access to the set screw





4.5. SETTING THE CABLE TENSIONER

Set back the slider

If the slider (4) is not in MIN position:

- A. Rotate the blockade (2) 90° clockwise to the unlocked position.
- **B.** Pull back the slider (5) to the MIN position.
- C. Rotate the blockade (2) counterclockwise to the locked position. eta
- D. Set the required tension force with the regulation knob (4).
- ${\bf E.}$ Set the locking lever (1) in open position.



4.6. CABLE TESNIONER INSERTION

Install the tensioner and push it to the clamp.





4.7. INITIAL CABLE TENSIONING

Pre-tension the cable and lock it with the locking lever (1).

4.8. CABLE TENSIONING

Use the tension lever (3) to reach the set tension force.



When the tensioning force is reached, the tensioning lever "click" is felt.



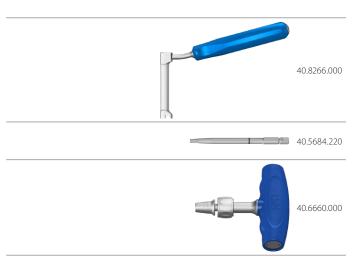
4.9. CABLE CLAMP LOCKING

Position the handle [40.8266.000] on the cable clamp.



The tip of the handle [40.8266.000] is compatible with the clamp shape.

Use the handle to insert the screwdriver tip T 25-1/4 [40.5684.200] with torque limiting ratchet handle T 4Nm [40.6660.000] to the clamp.





Always tighten the set screw using the 4Nm torque wrench. Too low tightening torque may not clamp the cable properly and cause loosening of the cable and lost of stabilization achieved.



4.10. CABLE TESNIONER REMOVAL

Unlock the locking lever (1).
Remove device by sliding it along the cable.

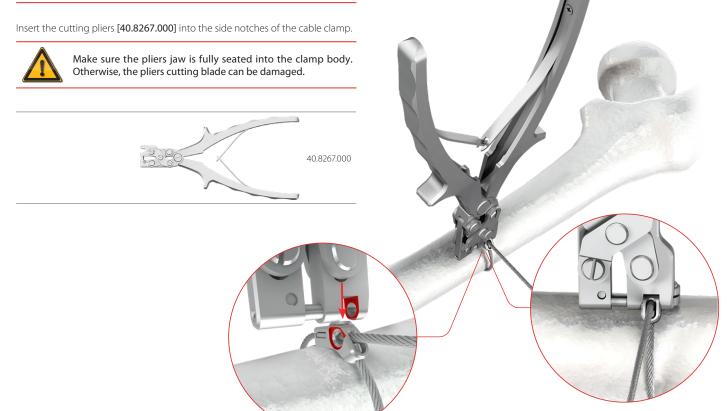




4.11. CABLE CUTTING



Prior to cutting the cable the tension force may be corrected. Unlock the clamp and re-tension the cable as required (according to the procedure described above).



For cutting the cable:

- Squeeze the arms of the cutting pliers [40.8267.000] until they are fully closed.
- Remove the cut off cable from the cable clamp.
- Open the arms of the pliers and remove the instrument from the cable clamp.





4.12. WOUND CLOSURE

Before closing the wound, take an X-Ray image in at least two positions to confirm the correct position of the implants. Use appropriate surgical technique to close the wound.

5. USE OF THE CABLE WITH A PLATE

The cable may also be used with a bone plate.

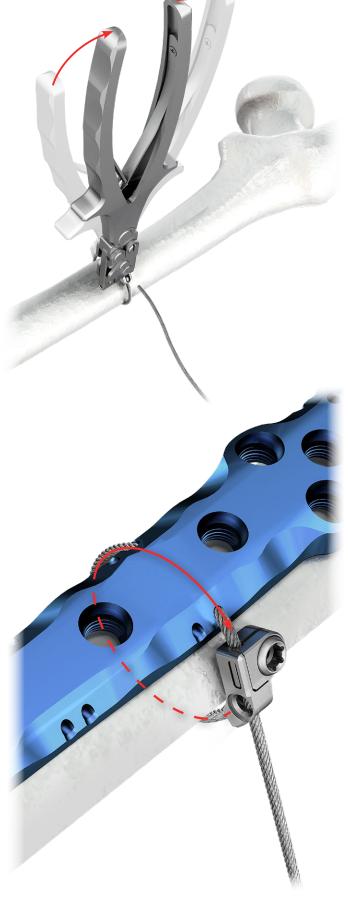
Pass the cable through the wire holes in the plate or through dedicated cerclage screws.

6. POSTOPERATIVE PROCEDURE

Introduce appropriate post-operative treatment. The physician decides on the post-operative treatment and its conduct. In order to avoid patient's movement limitations, introduce exercises as soon after surgery as possible. However, make sure that the limb is not fully loaded before fragments osteosynthesis is complete.

7. IMPLANT REMOVAL

The physician decides about implant removal. In order to remove the implant from the body, cut the wire wrapped around the bone.





8. CATALOGUE PAGES

8a. Implants









Cable with clamp

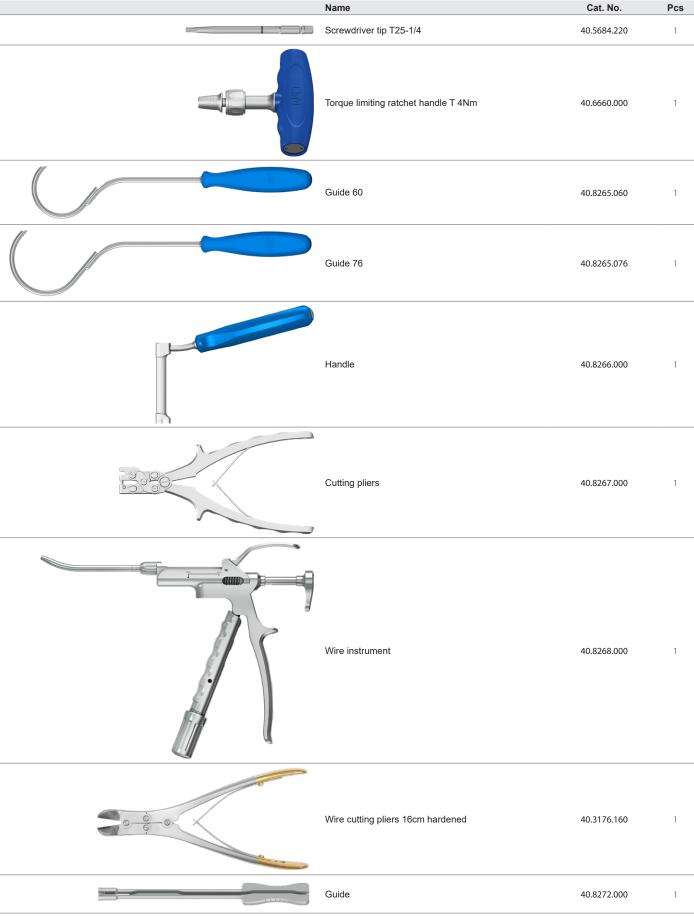
L [mm]	Name	Cat. No.
600	Wire for cerclage with clamp-	4.5250.600S
	weave - 2.0x600	





8b. Instrument set

Instrument set - cerclage 9x4H		15.0506.101	
	Name	Cat. No. Pcs	



Instrument set - cerclage 9x4H

15.0506.101

Name	Cat. No.	Pcs
Container - cerclage 9x4H	14.0506.101	1
Container lid - cerclage 9x4H	14.0506.102	1

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