



Cable Plate System

about us

Auxein Medical is an integrated, research based, orthopaedic Implants & instruments manufacturing company, producing a wide range of quality, affordable generic implants, trusted by healthcare professionals and patients across geographies. It is the Company's constant endeavor to provide a wide basket of generic and our innovator products that exceed the highest expectations of customers in term of quality and safety. The company has world-class manufacturing unit established in india and serves customers in over 75 countries worldwide.

Our Achievements











Guidelines

This publication sets forth detailed recommended procedures for using Auxein Medical devices and instruments.

It offers guidance that needs to be heeded. However, with any such technical guide, each surgeon must consider the unique needs of each patient and make appropriate adjustments when and as required.

A workshop training under DAIS Academy by Auxein will provide assistance prior to first surgery. It is vital to know that all non-sterile devices must be cleaned and sterilized before use.

Moreover, multi-component instruments must be disassembled for cleaning. The surgeon must discuss all relevant risks, including the finite lifetime of the device, with the patient, when necessary.

Please NOTE that all the bone screws referenced in this document here are not approved for screw attachment or fixation in the areas not mentioned in this publication.

Warning:

This description is not sufficient for immediate application of the instrumentation. Instruction by a surgeon experienced in handling this instrumentation is highly recommended.







PRODUCT OVERVIEW

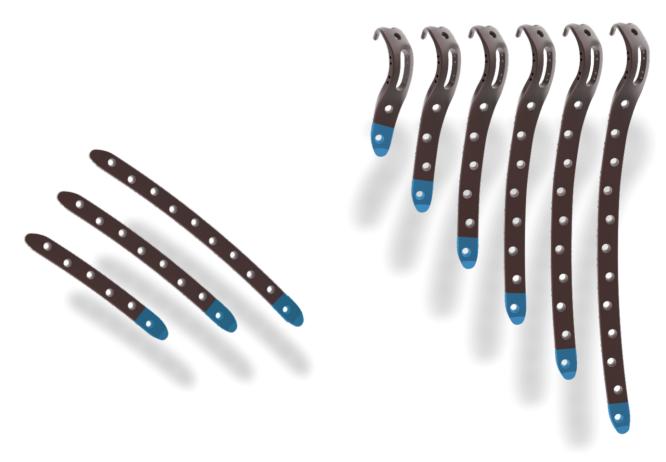
The Wise-Lock Cable System has a primary goal of development was an ergonomic, compact instrument design which simplifies handling and decreases application errors.

Multifunctional:

A variety of articles (implants and instruments) make the cable system a very versatile system, enabling it to be used for a wide range of applications (e.g. periprosthetic fractures, temporary reduction). All implants and instruments were optimized without compromise for the specific tasks of a cable system. This simplifies the surgical technique (e.g. no contouring of plates necessary)

Compatible with Auxein implants:

The Wise-Lock Cable system is compatible with the existing Auxein Medical plates and screws, both in stainless steel and titanium. The cable assemblies are available for stainless steel and titanium implant indications



Note: The technical details mentioned above are specifically based on the standard Wise-Lock Cable System



INDICATION

- Orthopaedic trauma surgery (incl. periprosthetic fractures, femur fractures, olecranon fractures, patella fractures, humerus and ankle fractures)
- Acromioclavicular dislocation
- Hip and acetabular fractures
- Prophylactic banding in total joint replacements
- Temporary fixation during open reductions
- Reattachment of the greater trochanter following osteotomy in total hip arthroplasty or fractures

Cable Plate Surgical Technique



1. Position patient and reduce fracture

Position the patient for the respective surgical approach, and reduce the fracture.

2. Choose the appropriate cable passer

Select the appropriate cable passer (7-035-09). The size and shape of the cable passer depends upon the circumference of the bone and access to the site. Select a cable passer that will allow the instrument to pass around the bone without causing significant damage to soft tissues or excessive stripping of the periosteum.

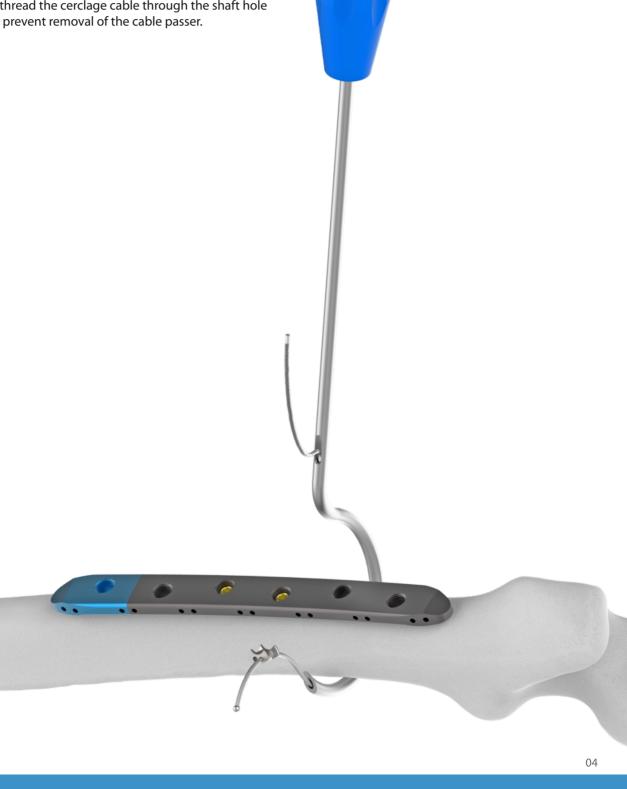


3. Pass the cable around the bone

Secure the one end of cable into the Curved Cable Connector and the other end into the cable passer.

Pass the cable passer around the bone. Thread the free end of the cable into the end-hole of the cable passer until the cable exits through the shaft hole. Remove the cable passer leaving the cable wrapped around the bone.

Precaution: Do not thread the cerclage cable through the shaft hole since the crimp will prevent removal of the cable passer.





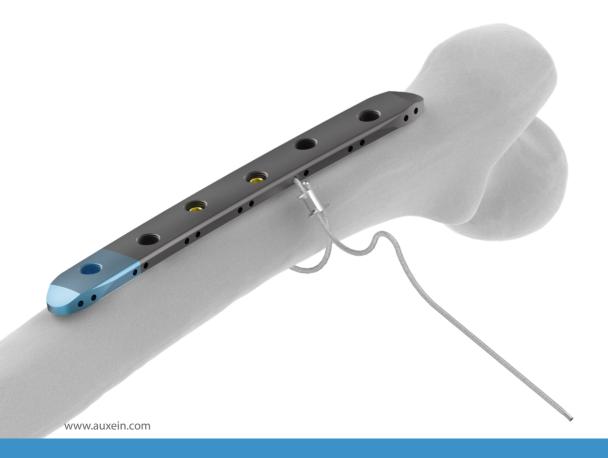
4a. Removal of Cable Passer

The Cable Passer is withdrawn leaving the cable on the other side of plate to be threaded and secure into the Curved Cable Connector.



4b. Wrapping of Cable around the Plate and the Bone

Thread and secure the free end of the cable into the Curved Cable Connector passing through the plate.

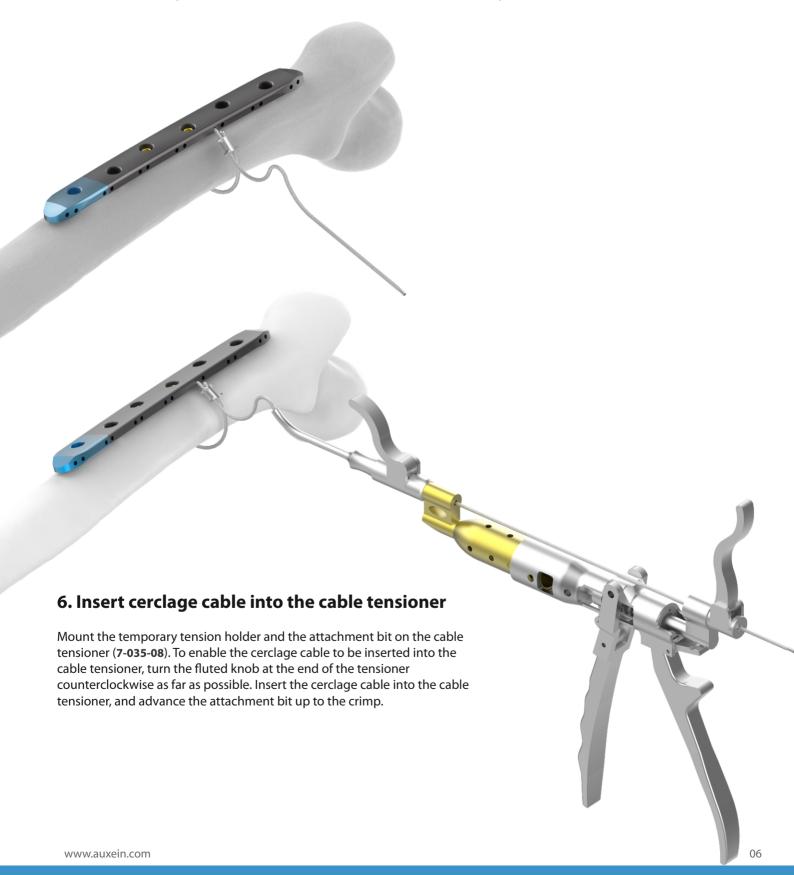


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5. Position cable crimp

Insert the end of the cable through the free hole of the crimp, and place the crimp in the desired position on the bone. When placing the crimp, ensure that it is covered by soft tissue and securely anchored in the bone. The four points on the underside of the crimp must contact the bone, and the smooth side must face upwards.

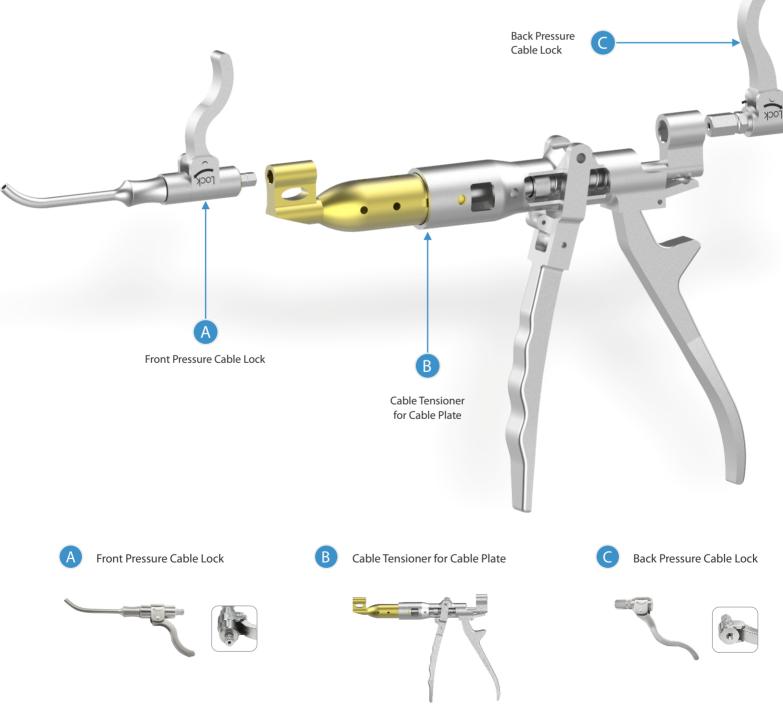




Assembling & Functioning of Cable Tensioner

Cable tensioning in cable plating system can be carried out after assembling the below listed three individual components/ instruments together. The name of the instruments are mentioned below. The front pressure cable lock is secure into the front portion of the cable tensioner and the back pressure cable lock is secure into the back of Cable tensioner.

After assembling of the cable tensioner we can lock the front and back pressure cable lock instrument according to the mentioned direction to tension and locking the cable in place. To tension the cable, the cable bit in inserted into the Cable Tensioner. The cable is threaded completely through the Tensioner and slack is pulled out of the cable. Squeeze the handles to apply the tension to the cable monitoring the amount of travels on the indicator ring. Once the desired tension is obtained set the tensioning bit cable lock. Release the rear cable lock and remove the tensioner. Depress ther release lever to return the tensioner into the ready position.



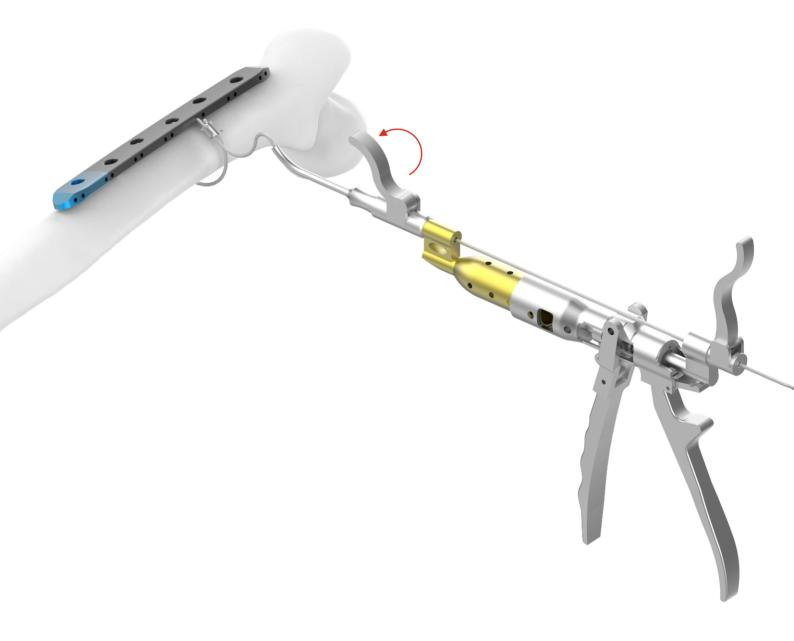


7. Tension cerclage cable

To tension the cable, the cable bit in inserted into the Cable Tensioner (**7-035-08**). The cable is threaded completely through the Tensioner and slack is pulled out of the cable. Squeeze the handles to apply the tension to the cable monitoring the amount of travels on the indicator ring. Once the desired tension is obtained set the tensioning bit cable lock. Release the rear cable lock and remove the tensioner. Depress ther release lever to return the tensioner into the ready position.

If the cerclage cable is tensioned above the specified level, it may tear out of the crimp or cut through or crush osteoporotic bone.

Warning: The tension of the cerclage cable should not exceed 40 kg (for the cable 1.0 mm) and 50 kg (for the cable 1.7 mm).





8. Temporary fixation (optional)

To temporarily fix a cerclage cable, the cable tensioner can be removed without causing loss of tension thanks to the temporary tension holder

Pull back the lever of the cam lock on the Front Pressure Cable Lock, ID: Ø1.0mm, for Cable Plate (7-035-04), and loosen and remove the cable tensioner. Using this procedure, any cerclage cable can be retensioned and/or repositioned before definitive fixation.

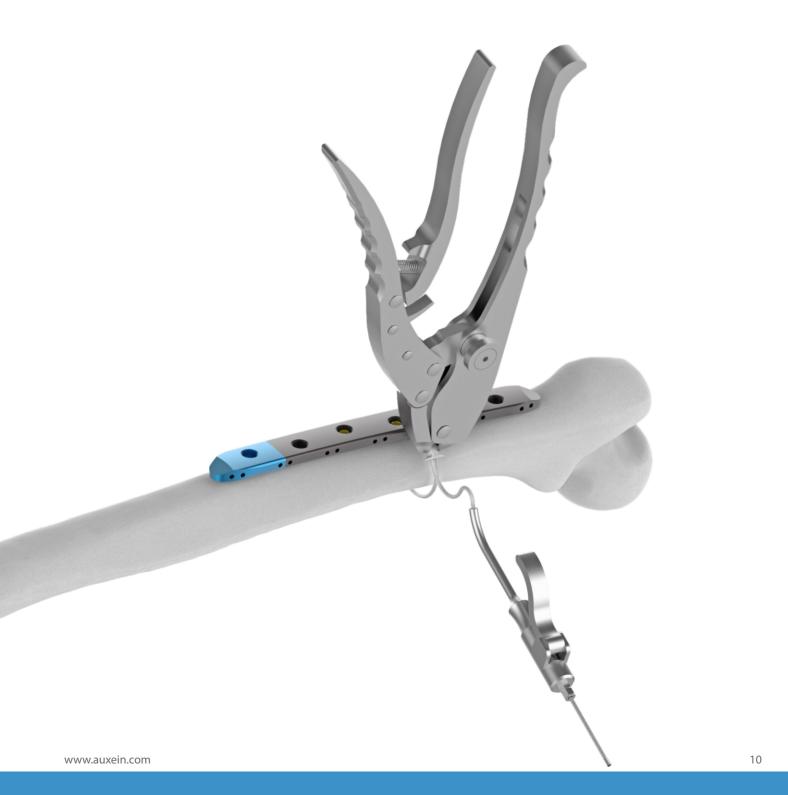




9. Secure cerclage cable with cable crimp

When the desired cable tension is reached, the cerclage cable can be secured with the crimp. Place the jaws of the Flat Connector Crimper for Cable Plate (7-035-01) on the crimp, ensuring that the crimp is centred and is correctly held in the crimper jaws. Pull the inner start lever first, then squeeze the outer handles to complete crimping. The toothed mechanism of the cable crimper establishes the appropriate compression pressure for securing the crimp.

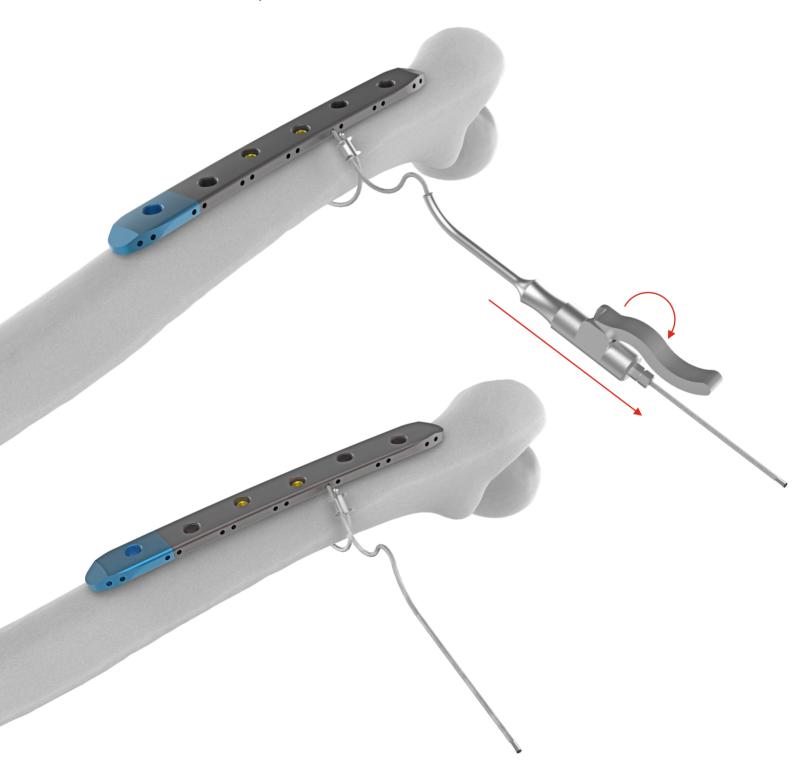
 $Precaution: Incorrectly \ placing \ the \ cable \ crimper \ can \ lead \ to \ crimp \ failure.$





10. Remove Temporary fixation

When the cerclage cable is secured and crimped into the curved cable connector turn the fluted knob on of the Flat Connector Crimper for Cable Plate (7-035-01) as far as possible, and remove the temporary tension holders are wed, push the lever of the cam lock backward, and pull the holder off the cable.





11. Cut cable

Cut the loose end of the cable using the Spicule Cutter for Cable Plate (7-035-02). Position the cutting jaws very close to the crimp, and make the cut in one action to produce a clean cut. Ensure that the adjacent cerclage cables do not get damaged.







Implant RemovalIn case the physician decides to remove the implants, implants can be removed by using general surgical instruments





1. Position patient and reduce fracture

Position the patient for the respective surgical approach, and reduce the fracture.

2. Choose the appropriate cable passer

Select the appropriate cable passer (7-035-09). The size and shape of the cable passer depends upon the circumference of the bone and access to the site. Select a cable passer that will allow the instrument to pass around the bone without causing significant damage to soft tissues or excessive stripping of the periosteum.





3. Pass the cable around the bone

Secure the one end of cable into the Curved Cable Connector and the other end into the cable passer.

Pass the cable passer around the bone. Thread the free end of the cable into the end-hole of the cable passer until the cable exits through the shaft hole. Remove the cable passer leaving the cable wrapped around the bone.

Precaution: Do not thread the cerclage cable through the shaft hole since the crimp will prevent removal of the cable passer.





4a. Removal of Cable Passer

The Cable Passer is withdrawn leaving the cable on the other side of plate to be threaded and secure into the Curved Cable Connector.



4b. Wrapping of Cable around the Plate and the Bone

Thread and secure the free end of the cable into the Curved Cable Connector passing through the plate.

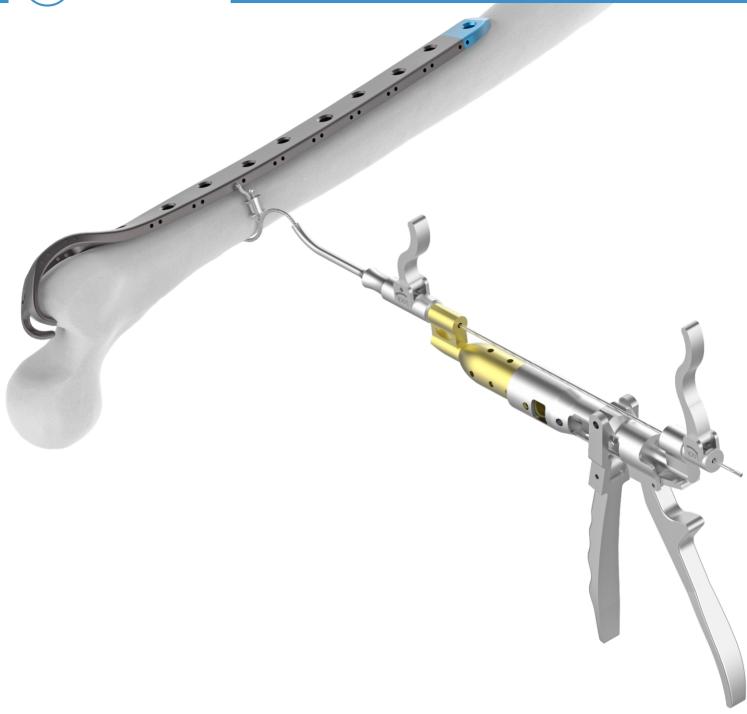


5. Position cable crimp

Insert the end of the cable through the free hole of the crimp, and place the crimp in the desired position on the bone. When placing the crimp, ensure that it is covered by soft tissue and securely anchored in the bone. The four points on the underside of the crimp must contact the bone, and the smooth side must face upwards.







6. Insert cerclage cable into the cable tensioner

Mount the temporary tension holder and the attachment bit on the Cable Tensioner for Cable Plate (7-035-08). To enable the cerclage cable to be inserted into the cable tensioner, turn the fluted knob at the end of the tensioner counterclockwise as far as possible. Insert the cerclage cable into the cable tensioner, and advance the attachment bit up to the crimp.



7. Tension cerclage cable

To tension the cable, the cable bit in inserted into the Cable Tensioner for Cable Plate (7-035-08). The cable is threaded completely through the Tensioner and slack is pulled out of the cable. Squeexze the handles to apply the tension to the cable monitoring the amount of travels on the indicator ring. Once the desired tension is obtained set the tensioning bit cable lock. Release the rear cable lock and remove the tensioner. Depress ther release lever to return the tensioner into the ready position.

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Warning: The tension of the cerclage cable should not exceed 40 kg (for the cable 1.0 mm) and 50 kg (for the cable 1.7 mm).





8. Temporary fixation (optional)

To temporarily fix a cerclage cable, the cable tensioner can be removed without causing loss of tension thanks to the temporary tension holder

Pull back the lever of the cam lock on the Front Pressure Cable Lock, ID: Ø1.0mm, for Cable Plate (7-035-04) holder, and loosen and remove the cable tensioner. Using this procedure, any cerclage cable can be retensioned and/or repositioned before definitive fixation.





9. Secure cerclage cable with cable crimp

When the desired cable tension is reached, the cerclage cable can be secured with the Flat Connector Crimper for Cable Plate (7-035-01). Place the jaws of the cable crimper on the crimp, ensuring that the crimp is centred and is correctly held in the crimper jaws. Pull the inner start lever first, then squeeze the outer handles to complete crimping. The toothed mechanism of the cable crimper establishes the appropriate compression pressure for securing the crimp.

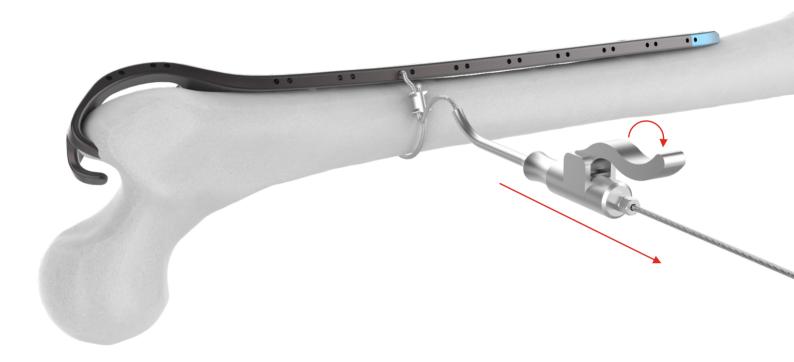
Precaution: Incorrectly placing the cable crimper can lead to crimp failure.





10. Remove Temporary fixation

When the cerclage cable is secured and crimped into the curved cable connector turn the fluted knob on of the Flat Connector Crimper for Cable Plate (7-035-01) as far as possible, and remove the temporary tension holders are wed, push the lever of the cam lock backward, and pull the holder off the cable.





11. Cut cable

Cut the loose end of the cable using the Spicule Cutter for Cable Plate (7-035-02). Position the cutting jaws very close to the crimp, and make the cut in one action to produce a clean cut. Ensure that the adjacent cerclage cables do not get damaged.







Implant Removal

In case the physician decides to remove the implants, implants can be removed by using general surgical instruments



5.0mm Wise-Lock Cable Prosthesis and Revision Femur Plate, Titanium





5.0mm Wise-Lock Cable Prosthesis and Revision Femur Plate





Holes	Left Direction	Right Direction
2	10-018-02LTI	10-018-02RTI
4	10-018-04LTI	10-018-04RTI
6	10-018-06LTI	10-018-06RTI
8	10-018-08LTI	10-018-08RTI
10	10-018-10LTI	10-018-10RTI
12	10-018-12LTI	10-018-12RTI

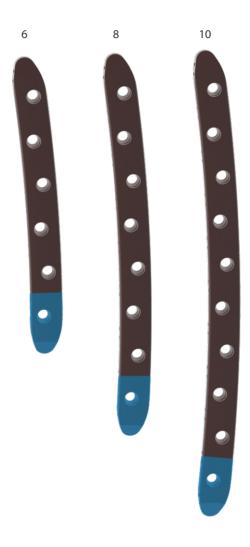


5.0mm Wise-Lock Cable Straight Plate, Titanium





5.0mm Wise-Lock Cable Straight Plate





Holes	Code
6	10-043-06TI
8	10-043-08TI
10	10-043-10TI



Cable

Codes	Dia	Length
10-019-500TI	1.0mm	500mm
10-020-500TI	1.7mm	500mm



Cable Connector Curved

Codes	Dia
10-062-1.0TI	1.0mm
10-062-1.7TI	1.7mm



Bone Needle

Codes	Dia	Length	
10-022-150SS	1.5mm	150mm	
10-022-250SS	1.5mm	250mm	
10-023-400SS	1.8mm 400mm		
10-024-150SS	2.0mm 150mm		
10-024-400SS	2.0mm 400mr		
10-024-450SS	2.0mm	450mm	

Bone Needle with Hole

Codes	Dia	Length	
10-025-100SS	1.6mm	100mm	
10-025-140SS	1.6mm 140n		
10-026-100SS	2.0mm	100mm	
10-026-120SS	2.0mm	120mm	
10-026-140SS	2.0mm	140mm	
10-027-120SS	2.5mm	120mm	
10-027-140SS	2.5mm	140mm	



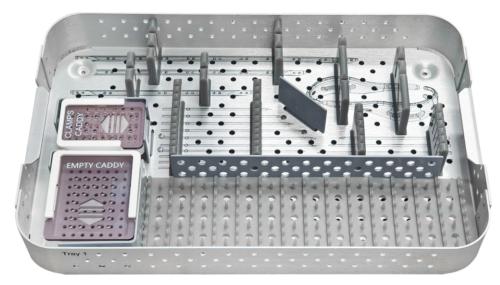
5.0mm Wise-Lock Screw, Self-Tapping, (Hex Head)

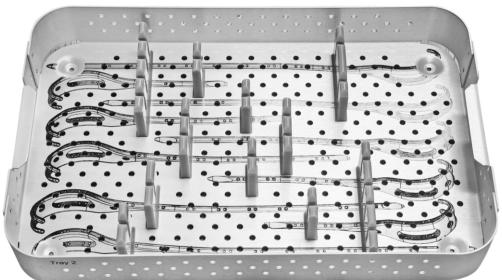
Length (mm)	Codes
12	TI-119.012
14	TI-119.014
16	TI-119.016
18	TI-119.018
20	TI-119.020
22	TI-119.022
24	TI-119.024
26	TI-119.026
28	TI-119.028
30	TI-119.030
32	TI-119.032
34	TI-119.034
36	TI-119.036
38	TI-119.038
40	TI-119.040
42	TI-119.042
44	TI-119.044
46	TI-119.046
48	TI-119.048
50	TI-119.050
52	TI-119.052
54	TI-119.054
56	TI-119.056
58	TI-119.058
60	TI-119.060
65	TI-119.065
70	TI-119.070
75	TI-119.075
80	TI-119.080
85	TI-119.085
90	TI-119.090





10-049 Implant Box for 5.0mm Wise-Lock Cable Plate Implant Set







10-049 5.0mm Wise-Lock Cable Plate Implant Set

Codes	Set Consisting of:	Units
10-018-02LTI	5.0mm Wise-Lock Cable Prosthesis and Revision Femur Plate, Left, 2 Holes, Titanium	1
10-018-04LTI	5.0mm Wise-Lock Cable Prosthesis and Revision Femur Plate, Left, 4 Holes, Titanium	1
10-018-06LTI	5.0mm Wise-Lock Cable Prosthesis and Revision Femur Plate, Left, 6 Holes, Titanium	1
10-018-08LTI	5.0mm Wise-Lock Cable Prosthesis and Revision Femur Plate, Left, 8 Holes, Titanium	1
10-018-10LTI	5.0mm Wise-Lock Cable Prosthesis and Revision Femur Plate, Left, 10 Holes, Titanium	1
10-018-12LTI	5.0mm Wise-Lock Cable Prosthesis and Revision Femur Plate, Left, 12 Holes, Titanium	1
10-018-02RTI	5.0mm Wise-Lock Cable Prosthesis and Revision Femur Plate, Right, 2 Holes, Titanium	1
10-018-04RTI	5.0mm Wise-Lock Cable Prosthesis and Revision Femur Plate, Right, 4 Holes, Titanium	1
10-018-06RTI	5.0mm Wise-Lock Cable Prosthesis and Revision Femur Plate, Right, 6 Holes, Titanium	1
10-018-08RTI	5.0mm Wise-Lock Cable Prosthesis and Revision Femur Plate, Right, 8 Holes, Titanium	1
10-018-10RTI	5.0mm Wise-Lock Cable Prosthesis and Revision Femur Plate, Right, 10 Holes, Titanium	1
10-018-12RTI	5.0mm Wise-Lock Cable Prosthesis and Revision Femur Plate, Right, 12 Holes, Titanium	1
10-043-06TI	5.0mm Wise-Lock Cable Straight Plate, 6 Holes, Titanium	1
10-043-08TI	5.0mm Wise-Lock Cable Straight Plate, 8 Holes, Titanium	1
10-043-10TI	5.0mm Wise-Lock Cable Straight Plate, 10 Holes, Titanium	1
10-062-1.0TI	Cable Connector, Curved, Ø1.0mm, Titanium	1
10-062-1.7TI	Cable Connector, Curved, Ø1.7mm, Titanium	1
10-022-150SS	Bone Needle, Ø1.5mm x Length 150mm, Stainless Steel	2
10-022-250SS	Bone Needle, Ø1.5mm x Length 250mm, Stainless Steel	2
10-023-400SS	Bone Needle, Ø1.8mm x Length 400mm, Stainless Steel	2
10-024-150SS	Bone Needle, Ø2.0mm x Length 150mm, Stainless Steel	2
10-024-400SS	Bone Needle, Ø2.0mm x Length 400mm, Stainless Steel	2
10-024-450SS	Bone Needle, Ø2.0mm x Length 450mm, Stainless Steel	2
10-025-100SS	Bone Needle with Hole, Ø1.6mm x Length 100mm, Stainless Steel	2
10-025-140SS	Bone Needle with Hole, Ø1.6mm x Length 140mm, Stainless Steel	2
10-026-100SS	Bone Needle with Hole, Ø2.0mm x Length 100mm, Stainless Steel	2
10-026-120SS	Bone Needle with Hole, Ø2.0mm x Length 120mm, Stainless Steel	2
10-026-140SS	Bone Needle with Hole, Ø2.0mm x Length 140mm, Stainless Steel	2
10-027-120SS	Bone Needle with Hole, Ø2.5mm x Length 120mm, Stainless Steel	2
10-027-140SS	Bone Needle with Hole, Ø2.5mm x Length 140mm, Stainless Steel	2



7-035-01 Flat Connector Crimper for Cable Plate



7-035-02 Spicule Cutter for Cable Plate



7-035-03 Cable Cutter for Cable Plate



7-035-04 Front Pressure Cable Lock, ID: Ø1.0mm, for Cable Plate



7-035-05 Back Pressure Cable Lock, ID: Ø1.0mm, for Cable Plate



7-035-06 Front Pressure Cable Lock, ID: Ø1.7mm, for Cable Plate





7-035-07 Back Pressure Cable Lock, ID: Ø1.7mm, for Cable Plate



7-035-08 Cable Tensioner for Cable Plate



7-035-09 Cable Passer for Cable Plate



7-035-10 Spicule Bender for Cable Plate



7-035-11 Curved Needle Guide for Cable Plate



7-035-12 Straight Needle Guide for Cable Plate





7-035-13 Impactor for Cable Plate



7-035-14 Trays for Cable Plate Instrument Set





7-035-15 Container for Cable Plate Instrument Set





7-035 Cable Plate Instrument Set









7-035 Cable Plate Instrument Set

Codes	Set Consisting of:	Units
7-035-01	Flat Connector Crimper for Cable Plate	1
7-035-02	Spicule Cutter for Cable Plate	1
7-035-03	Cable Cutter for Cable Plate	1
7-035-04	Front Pressure Cable Lock, ID: Ø1.0mm, for Cable Plate	1
7-035-05	Back Pressure Cable Lock, ID: Ø1.0mm, for Cable Plate	1
7-035-06	Front Pressure Cable Lock, ID: Ø1.7mm, for Cable Plate	3
7-035-07	Back Pressure Cable Lock, ID: Ø1.7mm, for Cable Plate	1
7-035-08	Cable Tensioner for Cable Plate	1
7-035-09	Cable Passer for Cable Plate	1
7-035-10	Spicule Bender for Cable Plate	1
7-035-11	Curved Needle Guide for Cable Plate	1
7-035-12	Straight Needle Guide for Cable Plate	1
7-035-13	Impactor for Cable Plate	1
7-035-14	Trays for Cable Plate Instrument Set	2
7-035-15	Container for Cable Plate Instrument Set	1



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