

Electrosurgery



Diatermo MB 120 Flash

MB FLASH are a High Frequency Radio Surgical equipment suitable for precision monopolar and bipolar surgery and micro-surgery without tissue alterations. MB FLASH allow surgical treatments with programmable timer operations up to milliseconds or with traditional mode. MB FLASH allow pure CUT, cut-coagulation BLEND, incision with reduced production of eschar ENHANCED, superficial coagulation FORCED COAG, deep coagulation in absence of necrosis SOFT COAG and BIPOLAR coagulation ABLATION. Digital reading of delivered power and the surveillance through microcontroller of the operational functions assure absolute reliability of the working conditions. MB FLASH allow a highly professional surgery through ergonomic and safety features. Connection of neutral electrode is constantly monitored. Safety control of patient/plate contact using split neutral electrode. Possibility to control the output functions and the delivery of output power by handle, allows surgical operation without diverting attention from the surgical field.

Main Features

Patient to plate contact control. Split return electrode use allowed. Minimally invasive surgical treatment allowed. Monopolar and Bipolar independent output. Auto Start/Stop in Bipolar Coag. Working condition planning. Power delivery by pedal and/or handle. Digital regulation and indication of the output power. Sound level control. Adjustable power increment. RF power pulse emission time setting. RF power pulse interval setting.

Technical Specifications

- Max output power: CUT: 120 W-250 O • BLEND: 90 W-200 O • ENHANCED: 90 W-250 O •
FORCED COAG: 80 W-150 O • SOFT COAG: 60 W-100 O • BIPOLAR COAG: 60 W-50 O
- Working frequency: 600 KHz
- RF power pulse emission time: 10 ms - 30 sec.
- RF power pulse interval: 1 – 9
- Patient circuit: F
- Selectable input voltage: 115 - 230 Vac
- Mains frequency: 50 - 60 Hz
- Electrical input power: 300 VA
- Size W x H x D: 370mm x 144mm x 319mm
- Weight: 6 kg
- Controls: Patient/Plate circuit monitoring, Output power monitoring, Self check control
- Safety: EN60601-1, EN60601-1-2, EN60601-2-2
- Electrical Class: I CF, MDD 93/42/EC Class: II b

Standard Accessories

- MB two-button autoclave handle
- Waterproof MB footswitch (30571) only for code 30633
- MB operative foot switch only for 30631
- MB metal plate (neutral electrode 30566) and cable (30559)
- 2 disposable ground pads (30562)
- Kit 10 short standard electrodes \varnothing 2.4 mm
- 3 needle + 3 blade + 3 ball electrodes 7 cm
- Power cable 5m
- Microsurgery handle (30552)
- Microsurgery needles 10 pieces
- Manual: English, Italian



Diatermo MB 120D

MB 120D is high frequency electrosurgical units suitable for minor and medium surgery. MB allow pure CUT, cut-coagulation BLEND, superficial coagulation FORCED COAG, deep coagulation in absence of necrosis SOFT COAG and, with forceps, BIPOLAR coagulation. The digital reading of delivered power and the monitoring of operative function by microcontroller guarantees absolute reliability of working conditions. MB allow a highly professional surgery through ergonomic and safety features. The connection of neutral electrode is constantly monitored. Safety control of patient/plate contact using split neutral electrode. Possibility to control the output functions and the delivery of output power by the handle, allows the surgical operation without diverting attention from the surgical field.

Main Features

- Minimum invasive surgery
- Possibility to use bipolar forceps
- Possibility to use split neutral electrodes
- Memorization of the last used settings
- Power activation by pedal and/or handle
- Digital adjustment and indication of the output power
- Adjustment of the acoustic indicator intensity.

Technical Specifications

- Max output power CUT: 120 W-250 O
- Max output power BLEND: 90 W-200 O
- Max output power FORCED COAG: 80 W-150 O
- Max output power SOFT COAG: 60 W-100 O
- Max output power BIPOLAR: 40 W-100 O
- Working frequency: 600 KHz
- Patient circuit: F
- Selectable input voltage: 115 - 230 Vac
- Mains frequency: 50 - 60 Hz
- Electrical input power: 300 VA
- Size W x H x D: 254mm x 104mm x 288mm
- Weight: 5 Kg
- Controls: Patient/Plate circuit monitoring, Output power monitoring, Self check control
- Safety: EN60601-1, EN60601-1-2, EN60601-2-2,
- Electrical Class: I CF, MDD 93/42/EC Class: II b

Standard Accessories

- Single use two button handle
- MB operative foot-switch (usable as alternative to handle)
- MB flat neutral plate and cable
- Kit of 6 short autoclavable electrodes, \varnothing 2.4 mm
- Power cable 2 m - Shuko plug
- User manual: English, Italian, available on request: French, Spanish



Diatermo MB 122-120W

MB 122 is a HF electrosurgical unit suitable to effect middle monopolar or bipolar electrosurgery. By selection of the modes of operation MB 122 provides pure cut, coagulated cut, forced coagulation, soft coagulation and, with forceps, bipolar coagulation. The use of either split or normal neutral plate is allowed. Leading-Edge Technology. This advanced concept device enables highly professional surgery intervention thanks to ergonomic and safety features derived from high power theatre apparatus. Complete safety. Open Circuit (OC) Alarm warns the user that connection into the neutral plate has not been made or that the cable is disconnected or the neutral plate is not in contact with the patient. The alarm is signalled by an intermittent beep together with a flashing red light on the front panel. In this condition HF emission for cut and coagulation operation is switched off. OVT Alarm. The unit incorporates an internal circuit protection warns when the current delivery last too much long. Made in Italy.

Technical Specifications

- Minimum preselectable power: 0
- Level step: 1
- Maximum output power CUT (W): 120 - 250 ohm
- Maximum output power BLEND (W): 90 - 200 ohm
- Maximum output power COAG FORCED (W): 80 - 150 ohm
- Maximum output power COAG SOFT (W): 60 - 100 ohm
- Maximum output power BIPOLAR (W): 40 - 100 ohm
- Crest Factor: CUT: 1.5; BLEND: 2.1; COAG FORCED: 2.0; COAG SOFT: 1.7; BIPOLAR: 1.5
- Working frequency: 600 kHz
- Weight: 7 Kg
- Size L x H x D: 260mm x 110mm x 265mm
- Operating voltage (switchable): 115 - 230
- Mains frequency (Hz): 50 - 60
- Fuses 230Vac (5x20) TIMED: 2x 3.15A
- Fuses 115Vac (5x20) TIMED: 2x 6.3A
- Electrical input power (VA): 300
- Electrical input current (230Vac) (A): 1.3
- Electrical input current (115Vac) (A): 2.6
- Five steps adjustable sound level (from 55- to 75dBA):
- Self-check:
- Power accuracy output warning
- Split or not split patient plate allowed
- Last working condition storing
- Electrical Class (EN60601 - 1): I CF
- MDD 93/42/EEC Class: II B
- Patient circuit: F
- Conform to EN60601-1-4 (1998)

Standard Accessories

- KIRKY single-use handle without buttons
- Operative foot-switch
- Rod neutral electrode and cable
- Kit of 6 short autoclavable electrodes, \varnothing 2.4 mm, length 5 cm
- Power cable 2 m - Shuko plug
- User manual: English, French, Spanish, Italian, Polish



Diatermo MB 160D

MB 160D is high frequency electrosurgical units suitable for minor and medium surgery. MB allow pure CUT, cut-coagulation BLEND, superficial coagulation FORCED COAG, deep coagulation in absence of necrosis SOFT COAG and, with forceps, BIPOLAR coagulation. The digital reading of delivered power and the monitoring of operative function by microcontroller guarantees absolute reliability of working conditions. MB allow a highly professional surgery through ergonomic and safety features. The connection of neutral electrode is constantly monitored. Safety control of patient/plate contact using split neutral electrode. Possibility to control the output functions and the delivery of output power by the handle, allows the surgical operation without diverting attention from the surgical field.

Main Features

- Minimum invasive surgery
- Possibility to use bipolar forceps
- Possibility to use split neutral electrodes
- Memorization of the last used settings
- Power activation by pedal and/or handle
- Digital adjustment and indication of the output power
- Adjustment of the acoustic indicator intensity

Technical Specifications

- Max output power CUT: 160 W-250 O
- Max output power BLEND: 120 W-200 O
- Max output power FORCED COAG: 100 W-150 O
- Max output power SOFT COAG: 80 W-100 O
- Max output power BIPOLAR: 60 W-100 O
- Working frequency: 600 KHz
- Patient circuit: F
- Selectable input voltage: 115 - 230 Vac
- Mains frequency: 50 - 60 Hz
- Electrical input power: 350 VA
- Size W x H x D: 254mm x 104mm x 288 mm
- Weight: 5 Kg
- Controls: Patient/Plate circuit monitoring, Output power monitoring, Self check control
- Safety: EN60601-1, EN60601-1-2, EN60601-2-2, Electrical Class: I CF
- MDD 93/42/EC Class: II b



Standard Accessories

- Single use two button handle
- MB operative foot-switch (usable as alternative to handle)
- MB flat neutral plate and cable
- Kit of 6 short autoclavable electrodes, \varnothing 2.4 mm
- Power cable 2 m - Shuko plug
- User manual: English, Italian, available on request: French, Spanish

Diatermo MB 160-160W

MB 160 is a HF electrosurgical units suitable to effect middle monopolar or bipolar electrosurgery. By selection of the modes of operation MB 160 provides pure cut, coagulated cut, forced coagulation, soft coagulation and, with forceps, bipolar coagulation. The use of either split or normal neutral plate is allowed. MB 160 is recommended in case of damp operational field, for instance mucous, or with tissue whose composition is varying with consequent need to have a reserve of usable power. For these reasons MB160 is suggested for Gynaecological and orthopaedic surgery. Leading-Edge Technology. These advanced concept devices enable highly professional surgery intervention thanks to ergonomic and safety features derived from high power theatre apparatus. Complete safety. Open Circuit (OC) Alarm warns the user that connection into the neutral plate has not been made or that the cable is disconnected or the neutral plate is not in contact with the patient. The alarm is signalled by an intermittent beep together with a flashing red light on the front panel. In this condition HF emission for cut and coagulation operation is switched off. OVT Alarm. The unit incorporates an internal circuit protection warns when the current delivery last too much long.

Technical Specifications

- Minimum preselectable power: 0
- Level step: 1
- Max. output power
 - CUT (W): 160 - 250 ohm
 - BLEND (W): 120 - 200 ohm
 - COAG FORCED (W): 100 - 150 ohm
 - COAG SOFT (W): 80 - 100 ohm
 - BIPOLAR (W): 60 - 100 ohm
- Crest Factor: • BLEND: 2.1 • COAG FORCED: 2.0 • COAG SOFT: 1.7 • BIPOLAR: 1.5
- Working frequency: 600 kHz
- Weight: 7 Kg
- Size L x H x D: 260mm x 110mm x 265mm
- Operating voltage (switchable): 115-230
- Mains frequency (Hz): 50-60
- Fuses 230Vac (5x20) TIMED: 2 x 3.15A
- Fuses 115Vac (5x20) TIMED: 2 x 6.3A
- Electrical input power (VA): 350
- Electrical input current (230 Vac) (A): 1.5
- Electrical input current (115 Vac) (A): 3
- Five steps adjustable sound level (from 55- to 75dBA):
- Self-check
- Power accuracy output warning
- Split or not split patient plate allowed
- Last working condition storing
- Electrical Class (EN60601 - 1): I CF
- MDD 93/42/EEC Class: II B
- Patient circuit: F
- Conform to EN60601-1-4 (1998)

Standard Accessories

- KIRKY single-use handle without buttons
- Operative foot-switch
- Rod neutral electrode and cable (30563)
- Kit of 6 short autoclavable electrodes, \varnothing 2.4 mm, length 5 cm
- Power cable 2 m - Shuko plug
- User manual: English, French, Spanish, Italian, Polish



Diatermo MB 200 Flash

MB FLASH are a High Frequency Radio Surgical equipment suitable for precision monopolar and bipolar surgery and micro-surgery without tissue alterations. MB FLASH allow surgical treatments with programmable timer operations up to milliseconds or with traditional mode. MB FLASH allow pure CUT, cut-coagulation BLEND, incision with reduced production of eschar ENHANCED, superficial coagulation FORCED COAG, deep coagulation in absence of necrosis SOFT COAG and BIPOLAR coagulation ABLATION. Digital reading of delivered power and the surveillance through microcontroller of the operational functions, assure absolute reliability of the working conditions. MB FLASH allow a highly professional surgery through ergonomic and safety features. Connection of neutral electrode is constantly monitored. Safety control of patient/plate contact using split neutral electrode. Possibility to control the output functions and the delivery of output power by handle, allows surgical operation without diverting attention from the surgical field.

Main Features

- Patient to plate contact control
- Split return electrode use allowed
- Minimally invasive surgical treatment allowed
- Monopolar and Bipolar independent output
- Auto Start/Stop in Bipolar Coag
- Working condition planning
- Power delivery by pedal and/or handle
- Digital regulation and indication of the output power
- Sound level control
- Adjustable power increment
- RF power pulse emission time setting
- RF power pulse interval setting

Technical Specifications

- Max output power CUT: 200 W-250 O
- Max output power BLEND: 120 W-200 O
- Max output power ENHANCED: 120 W-250 O
- Max output power FORCED COAG: 150 W-150 O
- Max output power SOFT COAG: 90 W-100 O
- Max output power BIPOLAR COAG: 80 W-50 O
- Working frequency: 600 KHz
- RF power pulse emission time: 10 ms - 30 sec.
- RF power pulse interval: 1 – 9
- Patient circuit: F
- Selectable input voltage: 115 - 230 Vac
- Mains frequency: 50 - 60 Hz
- Electrical input power: 350 VA
- Size W x H x D: 370mm x 144mm x 319mm
- Weight: 6 kg
- Controls: Patient/Plate circuit monitoring, Output power monitoring, Self check control
- Safety: EN60601-1, EN60601-1-2, EN60601-2-2, Electrical Class: I CF, MDD 93/42/EC Class: II b

Standard Accessories

- MB two-button autoclave handle
- Waterproof MB footswitch
- MB metal plate (neutral electrode) and cable
- 2 disposable ground pads
- Kit 10 short standard electrodes \varnothing 2.4 mm
- 3 needle + 3 blade + 3 ball electrodes 7 cm
- Power cable 5m
- Microsurgery handle
- Microsurgery needles 10 pieces
- Manual: English, Italian



Diatermo MB 200D

MB 200 is a high frequency electrosurgical equipment suitable for light and medium surgery, allows minimally invasive surgical procedure of resection, evaporation and coagulation. MB 200 allows pure CUT, Cut-Coagulation BLEND, incision with reduced production of eschar ENHANCED, superficial coagulation FORCED COAG, deep coagulation in absence of necrosis SOFT COAG and BIPOLAR coagulation. Digital reading of delivered power and surveillance through microcontroller of the operational functions, assure absolute reliability of working conditions. MB 200 allows a highly professional surgery through ergonomic and safety features. The connection of neutral electrode is constantly monitored. Safety control of patient/plate contact using split neutral electrode. Possibility to control the output functions and the delivery of output power by the handle, allows the surgical operation without diverting attention from the surgical field.

Main Features

- Patient-to-plate contact control
- Split return electrode use
- Minimally invasive surgical treatment allowed
- Monopolar and Bipolar independent output
- Auto Start/Stop in Bipolar Coag
- Working condition planning
- Power delivery by pedal and/or handle
- Digital regulation and indication of the output power
- Sound level control
- Adjustable power increment

Technical Specifications

- Max output power CUT: 200 W - 250 O
- Max output power ENHANCED: 120W - 250 O
- Max output power BLEND 120W: - 200 O
- Max output power FORCED COAG: 150W - 150 O
- Max output power SOFT COAG: 90W - 100 O
- Max output power BIPOLAR COAG: 80W - 100 O
- Working frequency: 600 kHz
- Patient circuit: F
- Mains voltage: 115-230 Vac
- Mains frequency: 50-60 Hz
- Electrical input power: 350 VA
- Size W x H x D: 370mm x 144mm x 319mm
- Weight: 6 Kg
- Controls: Patient/Plate circuit monitoring, Output power monitoring, Self check control
- Safety: EN60601-1, EN60601-1-2, EN60601-2-2
- Electrical Class: I CF, MDD 93/42/EC Class: II b

Standard Accessories

- MB two-button handle (autoclavable)
- Waterproof MB foot-switch
- MB flat neutral metal plate with cable
- Kit 10 short standard electrodes, \varnothing 2.4 mm
- 3 needle + 3 blade + 3 ball electrodes 7 cm
- Power cable 5 m
- Manual: available in English, Italian



Diatermo MB 200-200W

DIATERMO MB 200 is a HF electrosurgical unit suitable to effect middle monopolar or bipolar electrosurgery. The available waveforms and peak voltage value, as well as the accurate HF leakage current operation for polypectomy, TURP, intrauterine resections, endometriosis excision, etc. The unit allows the accurate preset of the output power with as low as 1 Watt resolution and to perform coagulation with high crest factor current, to get an elevated thermal effect, as well as with low voltage low crest factor current, to get coagulation in absence of carbonization. Ten different programs related to ten different operative conditions could be stored and easily recalled by the surgeon. The use of either split or normal neutral plates is allowed. A special electronic circuit (Skin Plate Electronic Control) continuously warns the plate to patient contact safety and unwanted short circuit in the connecting cable. An over time warning (OVT) is provided to prevent excessive heating of the tissue around the surgical target due to too long current delivery time.

The output pulse can be automatically repeated 1 to 250 times. The presetting of the current delivery time is proper for collecting of bioptic samples and for microsurgical dermatologic operations like treatment of telangiectasias, spider nevus, angiomas, etc. Bipolar cable and forceps are not included in standard accessories.

Technical Specifications

Minimum preselectable power: 0

Level step digital: 1

Maximum output power: ● CUT (W): 200 - 250 ohm ● CUT 90% (W): 200 - 250 ohm ● CUT 80% (W): 200 - 250 ohm
● CUT 70% (W): 200 - 250 ohm ● BLEND (W): 120 - 200 ohm
● COAG FORCED (W): 150 - 150 ohm ● COAG SOFT (W): 90 - 100 ohm ● BIPOLAR (W): -
● BIPOLAR COAG (W): 100 - 100 ohm ● BIPOLAR CUT (W): 120 - 250 ohm

Crest Factor: ● CUT: 1.5 ● CUT 90%: 1.6 ● CUT 80%: 1.7 ● CUT 70%: 1.8 ● BLEND: 2.1 ● COAG FORCED: 2.0
● COAG SOFT: 1.7 ● BIPOLAR: - ● BIPOLAR CUT (W): 1.5

- Working frequency: 600 kHz
- Weight: 8 Kg
- Size L x H x D: 360mm x 150mm x 265mm
- Selectable mains power(Vac): 115 -230
- Mains frequency (Hz): 50-60
- Fuses 230Vac (5x20) TIMED: 2x 3.15A
- Fuses 115Vac (5x20) TIMED: 2x 6.3A
- Power accuracy output warning system
- Split or not split patient plate allowed
- Timed delivery repetition: -
- Electrical Class (EN60601 - 1): I CF MDD 93/42/EEC Class: II b
- Patient circuit: F
- Duty cycle (action/pause) in seconds: 10/30

Standard Accessories

- MB two-button handle (autoclavable)
- MB operative foot-switch (usable in alternative to handle)
- MB flat neutral metal plate with cable
- Kit 10 short standard electrodes Ø 2.4 mm
- Power cable 2 m
- Manual: available in English, Italian



Diatermo MB 202-200W

DIATERMO MB 202 is a HF electrosurgical unit suitable to effect middle monopolar or bipolar electrosurgery. The available waveforms and peak voltage value, as well as the accurate HF leakage current operation for polypectomy, TURP, intrauterine resections, endometriosis excision, etc. The unit allow the accurate preset of the output power with as low as 1 Watt resolution and to perform coagulation with high crest factor current, to get an elevated thermal effect, as well as with low voltage low crest factor current, to get coagulation in absence of carbonization. Ten different programs related to ten different operative conditions could be stored and easily recalled by the surgeon. The use of either split or normal neutral plates are allowed. A special electronic circuit (Skin Plate Electronic Control) continuously warns the plate to patient contact safety and unwanted short circuit in the connecting cable. An over time warning (OVT) is provided to prevent excessive heating of the tissue around the surgical target due to too long current delivery time. Furthermore, DIATERMO MB 202 can be used with current delivery time equal to that of actuation of the output power switch as well as with preset current delivery time in the range from 1 ms up to 999 ms.

The output pulse can be automatically repeated 1 to 250 times. The presetting of the current delivery time is propre for collecting of bioptic samples and for microsurgical dermatologic operations like treatment of telangiectasias, spider nevus, angiomas, etc. Bipolar cable and forceps are not included in standard specifications.

Technical Specifications

- Minimum preselectable power: 0
- Level step digital: 1
- Maximum output power: ● CUT (W): 200 - 250 ohm ● CUT 90% (W): 200 - 250 ohm ● CUT 80% (W): 200 - 250 ohm
● CUT 70% (W): 200 - 250 ohm ● BLEND (W): 120 - 200 ohm
● COAG FORCED (W): 150 - 150 ohm ● COAG SOFT (W): 90 - 100 ohm ● BIPOLAR (W): -
● BIPOLAR COAG (W): 100 - 100 ohm ● BIPOLAR CUT (W): 120 - 250 ohm
- Crest Factor: ● CUT: 1.5 ● CUT 90%: 1.6 ● CUT 80%: 1.7 ● CUT 70%: 1.8 ● BLEND: 2.1 ● COAG FORCED: 2.0
● COAG SOFT: 1.7 ● BIPOLAR: - ● BIPOLAR CUT (W): 1.5
- Working frequency: 600 kHz
- Weight: 8 Kg
- Size L x H x D: 360mm x 150mm x 265mm
- Selectable mains power(Vac): 115 -230
- Mains frequency (Hz): 50-60
- Fuses 230Vac (5x20) TIMED: 2x 3.15A
- Fuses 115Vac (5x20) TIMED: 2x 6.3A
- Power accuracy output warning system
- Split or not split patient plate allowed
- Timed delivery repetition: -
- Electrical Class (EN60601 - 1): I CF MDD 93/42/EEC Class: II b
- Patient circuit: F
- Duty cycle (action/pause) in seconds: 10/30

Standard Accessories

- MB two-button handle (autoclavable)
- MB operative foot-switch (usable in alternative to handle)
- MB flat neutral metal plate with cable
- Kit 10 short standard electrodes \varnothing 2.4 mm
- Power cable 2 m
- Manual: available in English, Italian, French



Disposable sterile pencils are split in two series, hand switch and foot control; for each series customer can choose among several different models, selecting the needed tip, cable length and terminal connector.

F4795 – Pencils with rocker-switch control

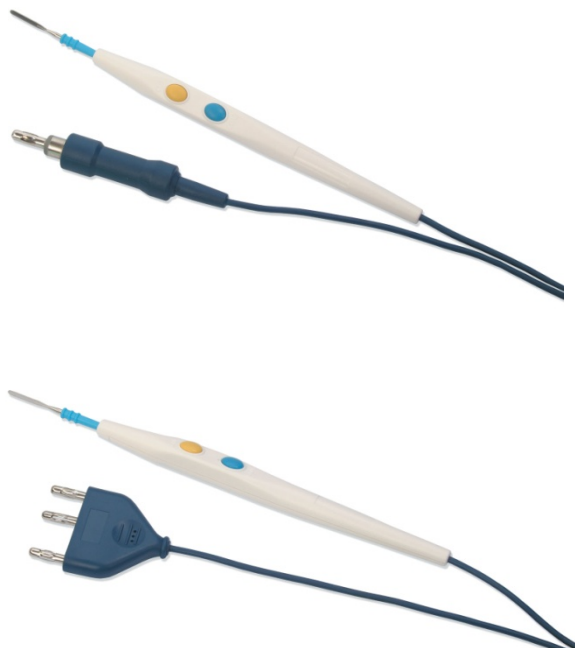
<i>Ref</i>	<i>Cable Length</i>	<i>Connector</i>	<i>Electrode</i>
F4795	320 cm	Valleylab	Blade
F4795TEF	320 cm	Valleylab	Teflon blade



F4797 – Pencils with push-button control

Ref	Cable Length	Connector	Electrode
F4797/WB	320 cm	Valleylab	without blade
F4797/5WB	500 cm	Valleylab	without blade
F4797	320 cm	Valleylab	blade
F4797/5	500 cm	Valleylab	blade
F4797/A	320 cm	Valleylab	needle
F4797/5A	500 cm	Valleylab	needle
F4797/P	320 cm	Valleylab	sphere
F4797/L	320 cm	Valleylab	long blade
F4797/5L	500 cm	Valleylab	long blade
F4797/AL	320 cm	Valleylab	long needle
F4797/PL	320 cm	Valleylab	long sphere
F4797/T	320 cm	Valleylab	titanium blade
F4797TEF	320 cm	Valleylab	teflon blade
F4797/5TEF	500 cm	Valleylab	teflon blade
F4797SE (*)	300 cm	Valleylab	blade
F4797/ERB	320 cm	Erbe 5 mm	blade
F4797/5ERB	500 cm	Erbe 5 mm	blade

(*) with vacuum system



Kit of disposable hand switch sterile pencil + holster and/or tip cleaner

F4798/H	Pencil F4797 + holster F4545
F4798/5H	Pencil F4797/5 + holster F4545
F4798/HTEF	Pencil F4797TEF + holster F4545
F4797/75	Pencil F4797 + tip cleaner F7520
F4797/5-75	Pencil F4797/5 + tip cleaner F7520
F4798/75H	Pencil F4797 + holster F4545 + tip cleaner F7520
F4798/5-75H	Pencil F4797/5 + holster F4545 + tip cleaner F7520
F4797T/75H	Pencil F4797/T + holster F4545 + tip cleaner F7520
F4798/5ERB-75H	Pencil F4797/5ERB + holster F4545 + tip cleaner F7520

F4390 – Pencils with foot control

<i>Ref</i>	<i>Cable Length</i>	<i>Connector</i>	<i>Electrode</i>
F4390	320 cm	universal 3,2 mm	blade
F4390/WB	320 cm	universal 3,2 mm	without electrode
F4390/A	320 cm	universal 3,2 mm	needle
F4390/P	320 cm	universal 3,2 mm	sphere
F4390/L	320 cm	universal 3,2 mm	long blade
F4390/AL	320 cm	universal 3,2 mm	long needle
F4390/PL	320 cm	universal 3,2 mm	long sphere
F4390/5	500cm	universal 3,2 mm	blade
F4390/5WB	500 cm	universal 3,2 mm	without electrode
F4390/4M	320cm	4 mm plug	blade



F4390 - Kit of disposable foot control sterile pencil + holster and/or tip cleaner

F4390/H	pencilF4390 +holster F4545
F4390/5H	pencilF4390/5 +holster F4545
F4390/75	pencil F4390 + tip cleaner F7520
F4390/5-75	pencil F4390/5 + tip cleaner F7520
F4390/75H	pencil F4390 + holster F4545 + tip cleaner F7520
F4390/5-75H	pencil F4390 + holster F4545 + tip cleaner F7520

Reusable Pencils for Electrosurgical Units

These reusable pencils grant very high waterproof qualities in the distal section of the device, which are ensured by a special silicon "O-ring" that prevents liquids infiltration and protects the operator from electric shocks. The silicon-insulated cord with its high resistance and flexibility, results extremely user-friendly during all the operating sessions, and enables numerous sterilisations in the autoclave. As disposable pencils, also reusable ones are available in many different versions, depending on the tip electrode, the cable length and the connector type.

F4XXX - Reusable hand switch pencils

<i>Ref</i>	<i>Cable Length</i>	<i>Connector</i>	<i>Electrode</i>	<i>Guaranteed Sterilizations</i>
F4244	300 cm	Valleylab	blade (F4060)	100
F4254	500 cm	Valleylab	blade (F4060)	100
F4141	300 cm	Valleylab	blade (F4060)	30
F4141/ERB	300 cm	Erbe 5 mm	blade (F4060)	30
F4151	500 cm	Valleylab	blade (F4060)	30
F4243	320 cm	Valleylab	blade (F4060)	100



<i>Ref</i>	<i>Cable Length</i>	<i>Connector</i>	<i>Electrode</i>	<i>Guaranteed Sterilizations</i>
F4245	300 cm	Valleylab	blade (F4060/4)	150
F4255	500 cm	Valleylab	blade (F4060/4)	150



F4814 - Reusable foot control pencils

<i>Ref</i>	<i>Cable Length</i>	<i>Connector</i>	<i>Electrode</i>	<i>Guaranteed Sterilizations</i>
F4814	300 cm	4mm plug	blade	100



Accessories for Pencils for Electrosurgical Units

F4545 - Sterile holster for pencil, high resistance plastic



F483X – Reusable Adapters for hand switch pencils

<i>Ref</i>	<i>Pencil Connector</i>	<i>ESU Connector</i>	<i>ESU Compatibility</i>
F4831	Valleylab	protected Ø 4 mm plug	Berchtold, Martin
F4832	Valleylab	Ø 5 mm plug	Erbe ACC/ICC
F4833	Valleylab	Ø 4 mm plug	Erbe T series



F4831



F4832



F4833

F483X – Reusable Adapters for hand switch pencils

<i>Ref</i>	<i>Pencil Connector</i>	<i>ESU Connector</i>	<i>ESU Compatibility</i>
F4830	Ø 4 mm	Ø 8 mm	Bovie, Soxil, Bard, Valleylab Burdick
F4834	Ø 4 mm	Ø6 mm	Alsatom
F4835	Ø3,2 mm	Ø 8 mm	Bovie, Soxil, Bard, Danieli, Ag e Csv, Valleylab, Burdick, Ems, Neomed
F4836	Ø3,2 mm	Ø4 mm	Martin, Siemens, Erbe, Alsa, Laser
F4837	Ø3,2 mm	Ø4 mm	Martin, Blendtorne, Acmicron, Erbe, Cobi, Emc
F4838	Ø3,2 mm	Ø6 mm	Alsatom, EB SS4/MMSB
F4839	Ø3,2 mm	Ø10 mm	Alsatom



Electrosurgery

Electrodes

The wide range of electrodes allows to fulfil every surgical needing, including gynaecology operations as an outpatient. Moreover, antisticking version is available for blade, sphere, needle and long needle electrodes.



Disposable Electrodes

Disposable electrodes are available both in stainless steel and titanium coated. Many different shapes and sizes are available, including some loop models.

F40XX – Disposable stainless steel electrodes

Ref	Length	Tip
F4044	70 mm	∅ 4 mm sphere
F4046	70 mm	blade
F4046/S	50 mm (*)	blade
F4048	70 mm	needle
F4048/S	69mm (*)	needle
F4049	54 mm	∅2 mm sphere
F4050	153 mm	blade
F4050/S	153 mm (*)	blade
F4052	152 mm	needle
F4052/S	152 mm (*)	needle
F4053	100 mm	blade
F4067	156 mm	∅ 4 mm sphere

(*) sleeve up to 6 mm to the end



F40XX/TEF – Stainless steel disposable electrodes with Teflon coating

Ref	Length	Tip
F4044/TEF	70 mm	∅ 4 mm sphere
F4046/TEF	70 mm	blade
F4046S/TEF	70 mm (*)	blade
F4048/TEF	70 mm	needle
F4050/TEF	150 mm	blade
F4050S/TEF	150 mm (**)	blade
F4052/TEF	150 mm	needle
F4067/TEF	150 mm	∅ 4 mm sphere

(*) 65 mm sleeve (**) 145 mm sleeve



F40XXT – Disposable titanium coated electrodes

<i>Ref</i>	<i>Length</i>	<i>Tip</i>
F4044T	70 mm	Ø 4 mm sphere
F4046T	70 mm	blade
F4048T	70 mm	needle
F4050T	153 mm	blade
F4052T	152 mm	needle
F4067T	156 mm	Ø 4 mm sphere



F40XX/TU – Disposable sterile tungsten electrodes

<i>Ref</i>	<i>Length</i>	<i>Tip</i>
F4047/TU	45 mm (*)	needle
F4048/TU	65 mm (*)	needle
F4051/TU	55 mm (*)	needle
F4051/45TU	55 mm (*) (**)	needle



(*) sleeve up to 4 mm to the end (**) 45° angled tip

F46XX – Disposable loop electrodes

<i>Ref</i>	<i>Shape</i>	<i>Dimensions</i>
F4620	round	10 x 3 mm
F4621	round	10 x 5 mm
F4622	round	10 x 7 mm
F4623	round	10 x 10 mm
F4624	round	10 x 15 mm
F4625	round	10 x 20 mm
F4630	square	10 x 4 mm
F4631	square	10 x 8 mm
F4632	square	10 x 10 mm
F4640	trapezoidal	30 x 5 mm
F4641	reversed curved	23 x 13 mm
F4642	triangular	17 x 12 mm



F40XX - Reusable stainless steel electrodes with 2,38 mm shaft

Ref	Length	Tip
F4045	156 mm	Ø 4 mm sphere
F4045/10	156 mm	Ø 4 mm sphere, 10° angled
F4045/20	156 mm	Ø 4 mm sphere, 20° angled
F4045/30	156 mm	Ø 4 mm sphere, 30° angled
F4045/40	156 mm	Ø 4 mm sphere, 40° angled
F4060	69mm	blade
F4061	100 mm	needle, 20° angled
F4062	150 mm	curved blade
F4063	152 mm	needle
F4064	150 mm	Ø 2,5 mm sphere
F4065	153 mm	blade
F4066	152 mm	thick needle Ø 1,30 mm
F4068	70 mm	Ø 4 mm sphere
F4084	69 mm	needle
F4086	69 mm	thick needle Ø 1,30 mm



F40XX/4 - Reusable stainless steel electrodes with 4 mm shaft

Ref	Length	Ttip
F4060/4	55 mm	blade
F4065/4	160 mm	blade
F4068/4	50 mm	Ø 4 mm sphere
F4084/4	55 mm	Ø 0,8 mm needle



F490X – Disposable extensions for electrodes

<i>Ref</i>	<i>Length</i>
F4902	102 mm
F4903	150 mm
F4904	182 mm



F495X – Reusable extensions for electrodes

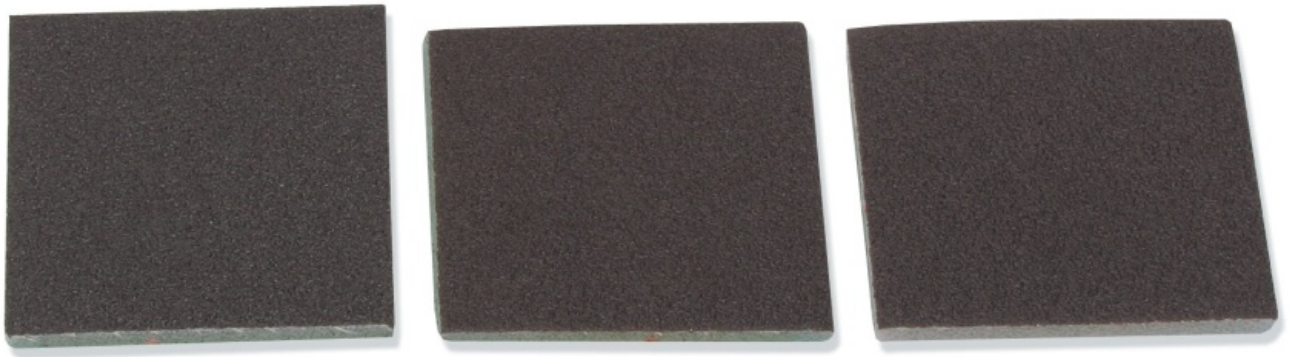
<i>Ref</i>	<i>Length</i>
F4952	102 mm
F4953	150 mm
F4954	182 mm



Tip Cleaner for Electrodes

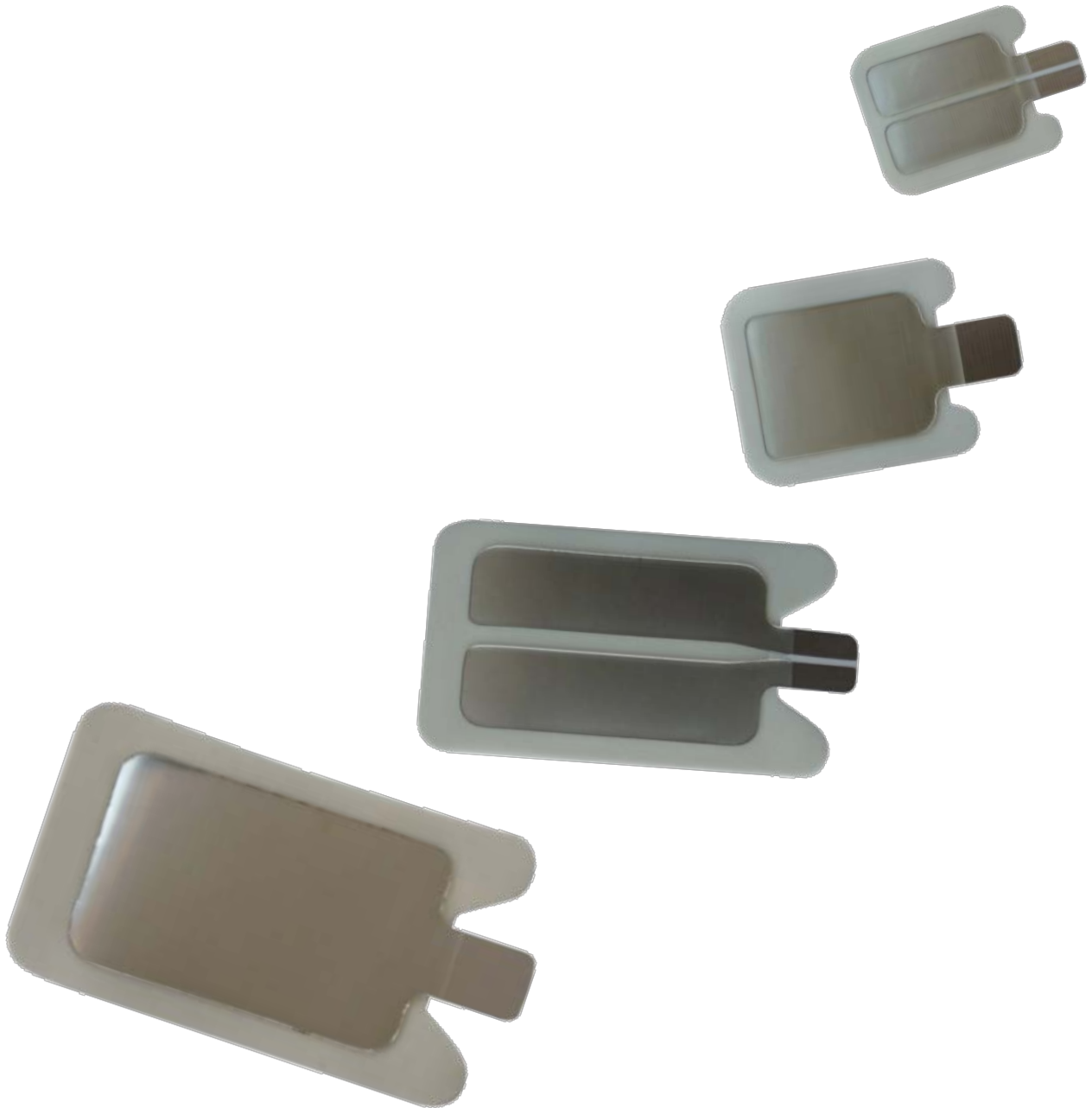
Disposable tip cleaner is used during electrosurgical procedures to clean electrodes' tip. It has an abrasive surface made with very solid material; a plastic BaSO₄ support makes the pad radiopaque; a strong adhesive assures a very good stability on the surgical drape. The product is latex free.

F7520 - Disposable radiopaque abrasive tip cleaner sterile pad, 50x50mm



Grounding Pads

The wide range of grounding pads includes models for adults, paediatric and neonatal; is also available a versatile model, which can be used with every patient size and body weight. Each model is available monopolar or bipolar (for REM control), with or without cable. Some models of reusable cable are also available, in order to connect tab grounding pads to most of all ESU present on the market.



Disposable Grounding Pads

Disposable grounding pads are available in several configuration, depending on the patient age, the REM control and the kind of connector.

F78XX - Disposable adult grounding pad, hydrogel, FOAM support, 202x101 mm, tab connection

Ref	Dimensions	Cable Length	Connection	REM Control
F7805 (*)	202x101mm	without cable	tab	NO
F7805W/V	202x101mm	300 cm	Valleylab	NO
F7805W/6.3	202x101mm	300 cm	bipolar Ø 6.3 mm	NO
F7820 (*)	202x101mm	without cable	tab	YES
F7820W/V	202x101mm	300 cm	Valleylab	YES

(*) F7805/5 and F7820/5 models are also available



F78XXP - Disposable paediatric grounding pad, hydrogel, FOAM support, 148x90 mm

Ref	Dimensions	Cable Length	Connection	REM Control
F7805P (*)	148x90 mm	without cable	tab	NO
F7805PW/V	148x90 mm	300 cm	Valleylab	NO
F7805PW/6.3	148x90 mm	300 cm	bipolar Ø 6.3 mm	NO
F7820P (*)	148x90 mm	without cable	tab	YES
F7820PW/V	148x90 mm	300 cm	Valleylab	YES

(*) F7805P/5 and F7820P/5 models are also available



Disposable Grounding Pads

F78XXN - Disposable neonatal grounding pad, hydrogel, FOAM support, 88x74 mm

<i>Ref</i>	<i>Dimensions</i>	<i>Cable Length</i>	<i>Connection</i>	<i>REM Control</i>
F7805N	88x74mm	without cable	tab	NO
F7820N	88x74mm	without cable	tab	YES
F7820NW/V	88x74mm	300 cm	Valleylab	YES



F73XX - Versatile disposable grounding pads

Without cable, hydrogel, FOAM support

<i>Ref</i>	<i>Dimensions</i>	<i>Connection</i>	<i>REM Control</i>
F7305	164x117 mm	tab	NO
F7320	164x117 mm	tab	YES



With cable, hydrogel, TNT support

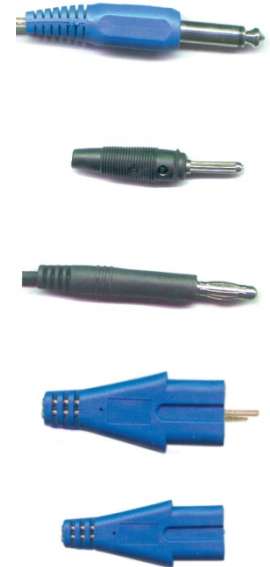
<i>Ref</i>	<i>Dimensions</i>	<i>Cable Length</i>	<i>Connection</i>	<i>REM Control</i>
F7305W/V	150x108 mm	300 cm	Valleylab	NO
F7320W/V	150x108 mm	300 cm	Valleylab	YES



F790X - Connection cables for disposable grounding pads

<i>Ref</i>	<i>Length</i>	<i>Connector</i>
F7902	500 cm	jack mono 6,3 mm
F7902/4	500 cm	4 mm plug
F7902/24	500 cm	4mm plug
F7903	500 cm	Valleylab (ESU with REM)
F7903/F	500 cm	Valleylab (ESU without REM)
F7904	500 cm	jack mono 6,3 mm (*)

(*) Compatible only with Erbe ACC and ICC



F4828-29 - Reusable adapters for REM grounding pads

F4828	Reusable adapter for disposable grounding pads from Valleylab type to 4 mm plug connection
F4829	Reusable adapter for disposable grounding pads from Valleylab type to 6,3 mm plug connection

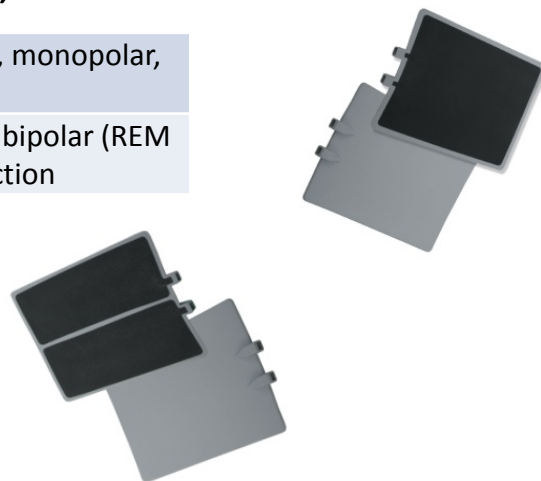


Removable Grounding Pads

Reusable grounding pads are available both unipolar and bipolar (for REM control) and have a 4 mm socket connection. Connecting cables are shown in the section "Cables and adapters"

F79XX - Reusable adult grounding pad, 150x200 mm, double 4mm socket connection

7915	Reusable adult grounding pad, 150x200 mm, monopolar, double 4mm socket connection
F7930	Reusable adult grounding pad, 150x200 mm, bipolar (REM control), double 4mm socket connection



F792X - Connection cables for reusable grounding pads

Ref	Length	Connection
F7922	500 cm	jack mono 6,3 mm
F7922/WB (*)	500 cm	jack mono 6,3 mm
F7922/4	500 cm	4 mm plug
F7922/24	500 cm	4 mm double plug
F7923	500 cm	Valleylab (ESU with REM)
F7923/F	500 cm	Valleylab (ESU without REM)



Electrosurgery

Electrocauteries

A really wide range of electrocauteries allows to choose the cautery pen that perfectly matches the clinical demands of the procedure. The technology is especially suited to surgical procedures such as dermatological cauterizations, small gynaecological or urological operations, haemostasis of pockets during pacemaker implantations, orthopedic operation as well as cardiovascular, reconstructive and ophthalmologic surgery. In such procedures the disposable electrocauteries provide an excellent cost effective alternative to the radio frequency electro-surgical devices.



Disposable bipolar sterile cautery pens feature perfect haemostasis with fast and effective precision cauterization of small blood vessels. Being powered by an internal long life battery, they are extremely easy to handle; several models are available, different from each other for working temperatures (1200°C, 800°C and 600°C), shape, thickness and length of the cautery tip. The range allows a wide variety operation for small incisions, resections or recesses to be cauterised effectively.

The available range allows to choose a cautery pen that perfectly matches the clinical demands of the procedure: for instance, low temperature model F7255, is particularly suitable for the ophthalmologic operations; model F7288 is particularly indicated for the release of painful haematomas under the nails, thanks to its stiff tip (it perforates the nail just by touching it); model F7277 is particularly useful in gynaecology.

F72XX - Disposable high temperature Electrocauteries

F7244	Disposable cautery, sterile, high temperature (1200°C), 28 mm fine tip
F7266	Disposable cautery, sterile, high temperature (1200°C), 28 mm large tip
F7234	Disposable cautery, sterile, high temperature (1200°C), 75 mm fine tip
F7277	Disposable cautery, sterile, high temperature (1200°C), 125 mm fine tip



F7288 - Disposable medium temperature electrocautery

F7288	Disposable cautery, sterile, medium temperature (800°C), 28 mm thick tip
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F7255 - Disposable low temperature cautery

F7255	Disposable cautery, sterile, low temperature (600°C), 28 mm fine tip
F7255UF	Disposable cautery, sterile, low temperature (600°C), 28 mm ultra fine tip



Electrosurgery

Reusable Electrocauteries

These reusable electrocauteries are equipped with replaceable batteries and tips. They are intended to be used in ambulatorial specialties where an accurate and quick cauterization is required.

F7297 (working temperature of 600°C – 1100°F) is specific for ophthalmology and must be used with the fine tip.

F7299 (working temperature of 1200°C – 2200°F) can be used for gynaecology, orthopedics, otorhinolaryngiatry, urology and dermatology: or this model three sterile tips are available, fine, large and long tips. Tips are supplied with a sterile protection sheath in PE, which must be used to protect electrocautery body when in use.

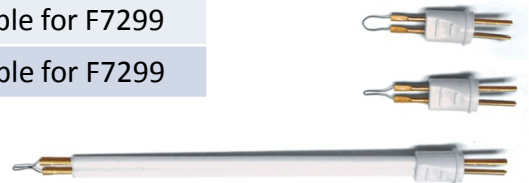
F7297-99 – Reusable Electrocauteries

F7299	Reusable electrocautery, not sterile, high temperature (1200°C), without tip
F7297	Reusable electrocautery, not sterile, low temperature (600°C), without tip



F7298 - Disposable tips for reusable Electrocauteries

F7298F	Disposable fine tip, sterile, L 30 mm, suitable for F7297 and F7299
F7298L	Disposable large tip, sterile, L 30 mm, suitable for F7299
F7298FG	Disposable long tip, sterile, L 120 mm, suitable for F7299



Bipolar Cable – for Erbe, Select, Down, Siemens

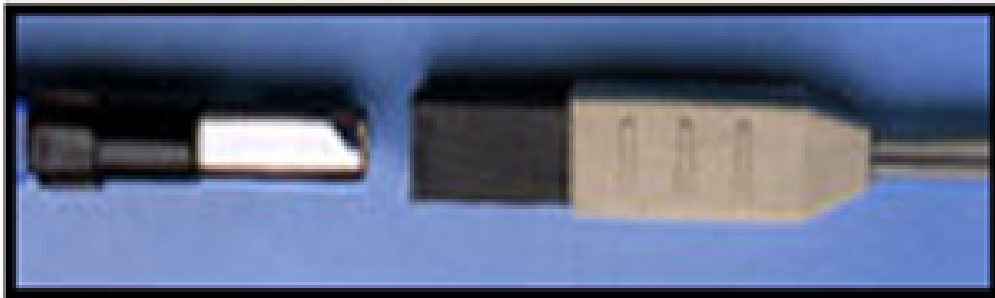
Quality highly flexible silicone bipolar cables. Autoclavable at 134°C up to 70 times 3 m long (10"). Suitable for most generators, see below compatibility, and with connector for European or US forceps.

Connector to electrosurgical unit

- 4 mm banana EU plug

Compatibility

- Erbe
- Select
- Down
- Siemens



Bipolar Cable – for Martin, Berthold, Aesculap, Wolf

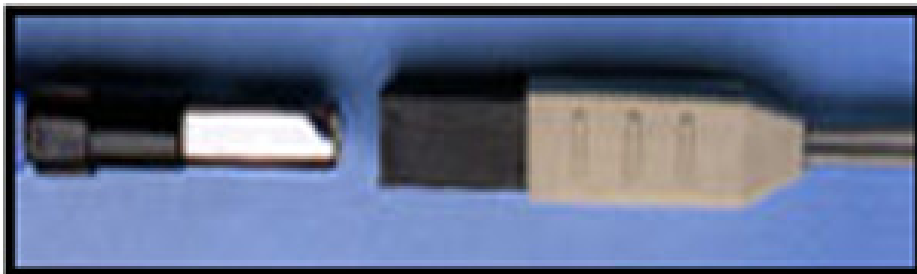
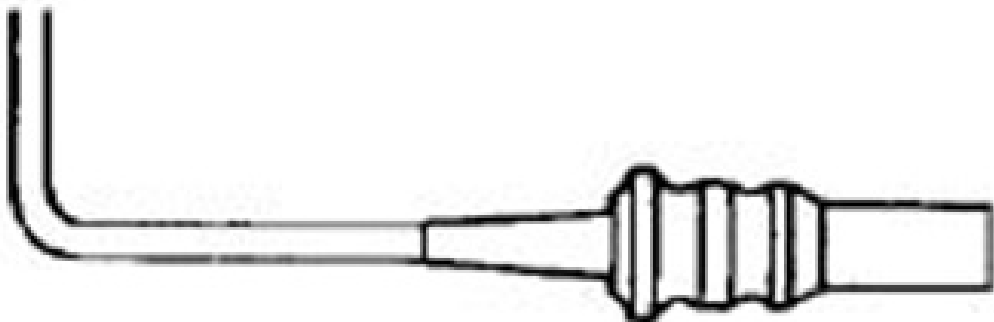
Quality highly flexible silicone bipolar cables. Autoclavable at 134°C up to 70 times 3 m long (10"). Suitable for most generators, see below compatibility, and with connector for European or US forceps.

Connector to electrosurgical unit

4 mm banana EU plug

Compatibility

- Martin
- Berthold
- Aesculap
- Wolf



Bipolar Cable – for GIMA MB122/132/160/200/202

Quality highly flexible silicone bipolar cable. Autoclavable at 137°C, 3 m long (10"). Suitable for most generators. Connector to electrosurgical unit: 4 mm banana EU plug.

Compatibility

- GIMA MB122
- GIMA MB132
- GIMA MB160
- GIMA MB200
- GIMA MB202



Bipolar Cable – for GIMA MB122/132/160/200/202

Quality highly flexible silicone bipolar cables. Autoclavable at 134°C up to 70 times 3 m long (10"). Suitable for most generators, see below compatibility, and with connector for European or US forceps. Connector to electrosurgical unit: 4 mm banana U.S.A. plug or 4 mm EU banana plug.

Compatibility

- GIMA MB240
- GIMA MB250
- GIMA MB380
- GIMA MB400
- Valley Lab
- Conmed
- Codman
- Olympus

Available Connectors

- European Connector
- American Connector



Monopolar Cable – 4 mm m/f

Laparoscopic electrodes without suction for use with Diatermo MB 240/250/300/380/400 with connecting cable 4 mm.



Monopolar Cable – 4 mm pin

Insulated Monopolar Instruments: Monopolar cable - 4 mm pin.

