Contents

High Frequency Electrosurgical Cables ........................................ 1
Câbles électrochirurgicaux haute fréquence ............................ 5
Hochfrequenzkabel für die Elektrochirurgie ............................ 11
Cavi elettrochirurgici ad alta frequenza ................................ 17
Cabos electrocirúrgicos de alta-frequência ......................... 23
Cables electroquirúrgicos de alta frecuencia .......................... 29
Elektrochirurgische hoogfrequentiekables ............................ 35
Elektrokirurgiske højfrekvenskabler .................................... 41
Sähkökirurgiset suurtaajuuskaapelit ..................................... 45
Elektrokirurgiske HF-kabler .................................................. 49
Elektrokirurgiska högfrekvenskablar ..................................... 53
Przewody elektrochirurgiczne wysokiej częstotliwości .............. 57
Ηλεκτροχειρουργικά καλώδια υψηλής συχνότητας ...................... 63
高频电外科手术电缆 .......................................................... 69
高周波電気外科用ケーブル .................................................. 73
고주파 전기 수술 케이블 ..................................................... 77
**Warnings**

Federal law (USA) restricts this device to use by, or on the order of a physician.

High-frequency cables connect electrosurgical generators to electrosurgical instruments. It is important that the instructions supplied and any additional instructions for the electrosurgical system be read, understood, and followed in order to enhance safety and effectiveness.

To avoid damage to the device and injury to the patient, the following warnings must be followed:

1. In Monopolar surgery, the use and the proper placement of a dispersive electrode is a key element in the safe and effective use, particularly in the prevention of burns.
2. Cables whose connectors have not been thoroughly rinsed and dried/aerated, may cause electrical shocks or burns to the patient or doctor.
3. If there is a break in the cable wire or the cable becomes otherwise electrically discontinuous, arcing may occur in the patient-return or active circuit and may burn the patient or create a fire. Cables should be inspected for defects prior to surgery. Reusable cables should be periodically tested for continuity. If any defects are found, discontinue use.
4. All reusable monopolar/bipolar cables should not exceed 20 uses. Damage caused by misuse, overuse, mishandling or normal wear may cause electrical shocks or burns to patient and/or user.
5. If using irrigation near cable, care should be taken to ensure that the liquid does not enter the connection between the electrosurgical fitting and the cable. There is a high risk of electrical shock if liquid enters the fitting.
6. Potentially hazardous conditions may exist when accessories are not appropriate for the type of generator output used. If unusual operating characteristics develop or are observed during procedures, use of the product should be discontinued.
7. Electrosurgical leads (active, bipolar, or return) should be positioned so that they cannot come into contact with the patient or other leads.

**Note:** Soaking of electrosurgical cables is not recommended. Soaking will reduce the life of reusable cables.

**Inspection Before Use**

Prior to use, electrosurgical cables should be examined for the following:

- Loose or damaged connector mating parts.
- Breaks in insulation on cord and connector.
- Loose or improperly attached connectors.
- Cables are thoroughly dry/aerated.

**Instructions for Use**

**Caution**

- Disposable Cables are supplied in a sterilized condition, DO NOT clean or re-sterilize after one use - DISCARD immediately!
- Reusable Cables should be inspected, cleaned, sterilized and dried/aerated PRIOR to use per this instruction manual. The user is recommended to implement a program to track the number of uses of the reusable cables.
- Avoid kinking or sharply bending the cables, or damaging the insulation. Failure to do so may result in broken wires causing cable failure.

**Handling**

The life span of your Stryker high-frequency cables may be greatly extended by following the following handling procedures:

1. Inspect Stryker cables prior to each use for any sign of damage.
2. Immediately replace any cable which shows signs of damage. Replace with new Stryker cables.
3. Use the strain relief handle to insert and remove cables.
4. Insert the cable and twist clockwise for maximum performance.
5. Avoid kinking or sharply bending the cables, or damaging the insulation. Failure to do so may result in broken wires causing cable failure.

**Storage**

1. Store loosely coiled (4-5” diameter).
2. Do not kink the cable or set heavy objects on it.

**Monopolar Surgery**

A groundplate is attached firmly to the patient. A sterile electrosurgical cable which connects to both the Monopolar electrocautery device and to the electrosurgical instrument is needed to activate the
electrode. Cables and instruments should not be used unless designed to fit properly. Use the strain relief handle to insert and remove cables.

Verify cable connectors are completely inserted (twist single pin connector clockwise) for maximum performance.

**Cleaning**

**Caution:** Disposable Cables are supplied in a sterilized condition. DO NOT CLEAN OR RE-STERILIZE!

1. Disconnect the device from all other devices.
2. Verify that the cable is reusable per label.
3. **Wipe**
   
   Wipe excess soil from the device with disposable paper towels.

4. **Soak in Enzymatic Detergent**
   
   - Prepare an enzymatic detergent solution\(^1\) with lukewarm tap water, according to manufacturer’s recommendations.
   - Wipe the entire surface of the device using a soft clean cloth dipped in the detergent solution.
   - Immerse the device in the detergent solution, ensuring the solution contacts all inner and outer surfaces of the device. Use a syringe to inject any lumens, crevices, and mated surfaces with a minimum of 50mL of solution.
   - Soak the device in the solution for a minimum of 15 minutes.

5. **Brush**
   
   - Thoroughly brush the exterior of the device and any difficult-to-reach areas with a soft-bristled brush.
   - Inject all lumens, crevices, and mated surfaces with a minimum of 50mL of detergent solution.
   - With the device immersed in the detergent, thoroughly brush the interior and exterior with an appropriately sized soft-bristled brush. (Note: An appropriately sized brush for the interior of the device will be a bottle brush with bristles that extend the diameter of the device lumen.)

6. **Rinse**
   
   - Remove the device from the detergent solution and rinse it thoroughly with water\(^2\) at ambient temperature until all visible detergent residues are removed.
   - Flush all lumens, crevices, and mated surfaces with a minimum of 50mL of water.
   - After all detergent residues are removed, rinse the device for an additional 30 seconds.
   - Drain any excess water from the device by holding it at an incline.

7. **Soak in Non-Enzymatic Detergent**
   
   - Prepare a non-enzymatic detergent solution\(^3\) in lukewarm tap water according to manufacturer’s recommendations.
   - Immerse the device in the detergent solution, ensuring the solution contacts all inner and outer surfaces of the device. Use a syringe to inject any lumens, crevices, and mated surfaces with a minimum of 50mL of solution.
   - Soak the device in the solution for a minimum of 15 minutes.

8. **Brush**
   
   - Thoroughly brush the exterior of the device and any difficult-to-reach areas with a soft-bristled brush.
   - Inject all lumens, crevices, and mated surfaces with a minimum of 50mL of detergent solution.
   - With the device immersed in the detergent, thoroughly brush the interior and exterior with an appropriately sized soft-bristled brush. (Note: An appropriately sized brush for the interior of the device will be a bottle brush with bristles that extend the diameter of the device lumen.)

9. **Rinse**
   
   - Remove the device from the detergent solution and rinse it thoroughly with water\(^2\) at ambient temperature until all visible detergent residues are removed.
   - Flush all lumens, crevices, and mated surfaces with a minimum of 50mL of water.
   - After all detergent residues are removed, rinse the device for an additional 30 seconds.
   - Drain any excess water from the device by holding it at an incline.

10. **Dry**

    Dry the device using a clean, soft cloth.
11. **Inspect**

Visually inspect the device, including all internal surfaces, for remaining soil. If soil remains, repeat the manual cleaning procedure, focusing on those areas.

1. Enzol® at 1 oz/gal. at 35-40°C is validated for cleaning efficacy.
2. Reverse osmosis/deionized (RO/DI) water is validated for cleaning efficacy.
3. Renu-Klenz™ at ¼ oz/gal. at 35-40°C is validated for cleaning efficacy.

**Disinfection (optional)**

1. Disinfect the device in a disinfecting solution that has one of the following active ingredients:
   - ≥ 3.4% glutaraldehyde (with a minimum soak time of 20 minutes at 25°C).¹
   - ≥ 0.55% ortho-phthalaldehyde (with a minimum soak time of 12 minutes at 25°C).²

2. Prepare the disinfecting solution according to the manufacturer’s instructions.
3. Immerse the device in the disinfecting solution for the required time and at the appropriate temperature, ensuring that the solution contacts all inner and outer surfaces of the device. Use a syringe to inject any difficult-to-reach areas (i.e. lumens, crevices) with a minimum of 50mL of solution.
4. Rinse and flush the device in a bath of sterile water. Immerse the device, shake it under water, and allow it to soak for at least one minute. Repeat the rinse and flush two more times, using a fresh bath each time.
5. Dry all parts with a sterile, lint-free cloth immediately after rinsing.

1. Cidex® Plus is validated for disinfection efficacy.
2. Cidex® OPA is validated for disinfection efficacy.

**Steam Sterilization**

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<tr>
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**Warranty**

All reusable monopolar/bipolar cables are warranted for 20 uses against defects in workmanship and materials. Damage caused by misuse, overuse, mishandling or normal wear is not covered under warranty.