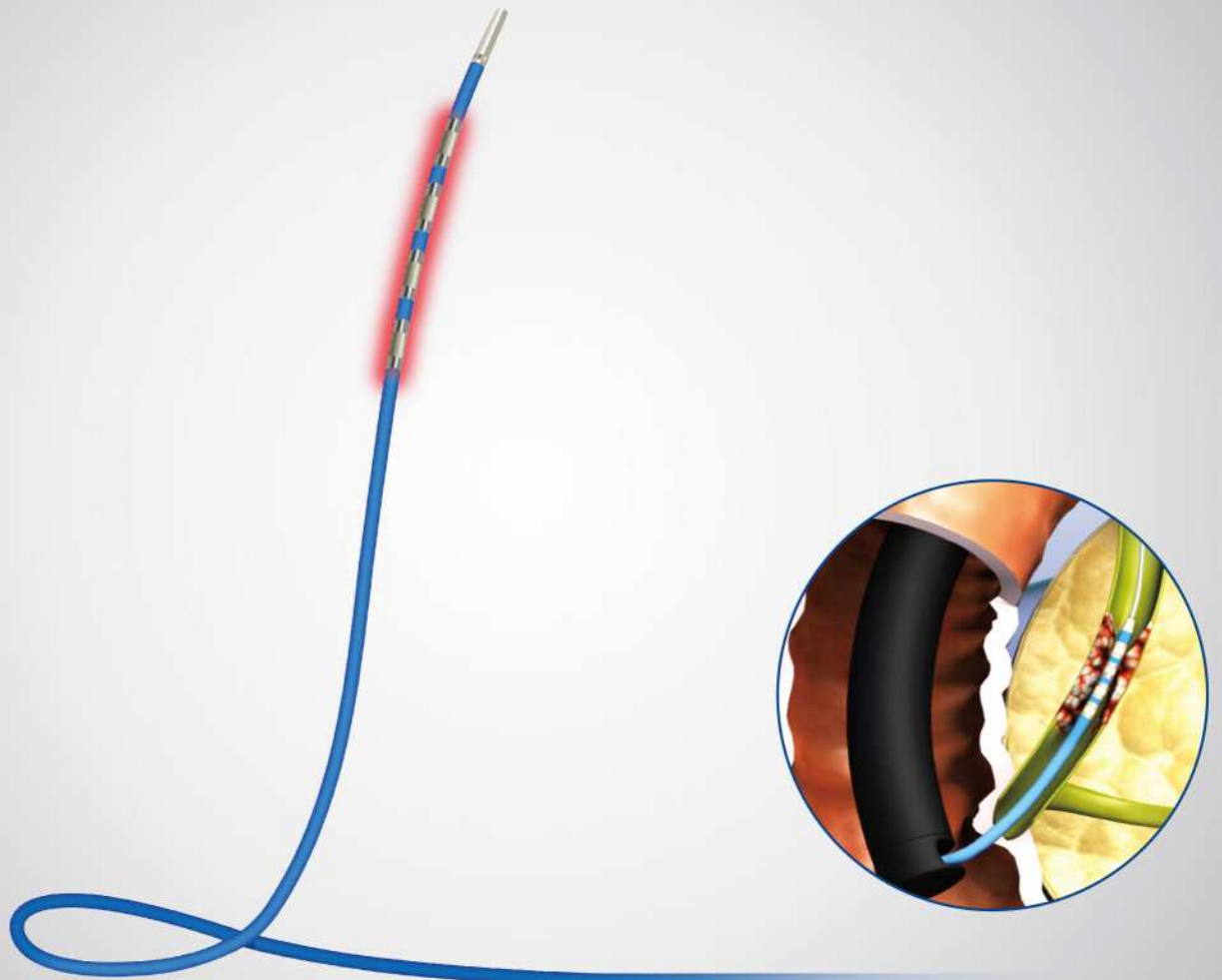


# ELRA™

Endo Luminal Radiofrequency Ablation electrode



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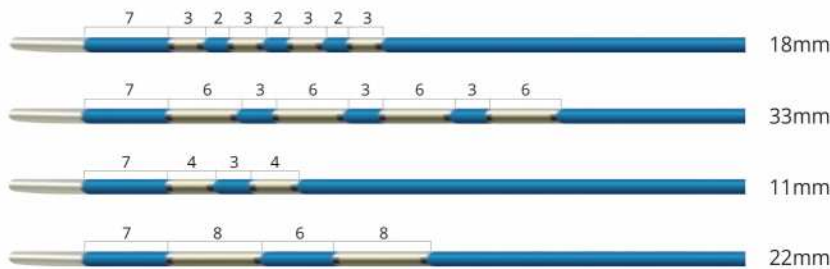
**TaeWoong**  
MEDICAL 



for treating malignant biliary obstruction

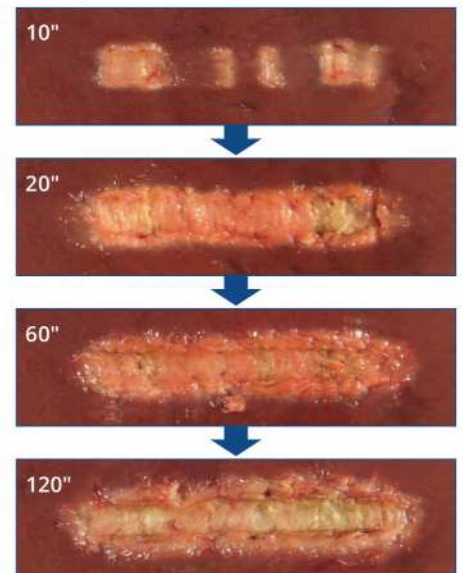
### Features

- The optimized temperature based mode makes safe procedures and prevents tissue charring, decreasing any chances of perforation
- Multiple bipolar electrodes make linear ablation zones
- The electrode is a bipolar system and single use ONLY
- Endoscopic and percutaneous approaches are available
- It is compatible with the VIVA combo™ generator ONLY
- Electrodes can be selected according to the length of the stricture size: 18mm / 33mm



Before Ablation vs After Ablation

**Ablation Image** (Bovine Liver)  
Setting Condition: 75 °C 10watt 2min



### Ordering Information

Endoscopic Approach			
Code	Total Length (cm)	Exposure Length (mm)	Diameter
7-4B18L	175	18	7Fr (2.31mm)
7-4B33L		33	
7-2B11L		11	
7-2B22L		22	

Percutaneous Approach			
Code	Total Length (cm)	Exposure Length (mm)	Diameter
7-4B18S	40	18	7Fr (2.31mm)
7-4B33S		33	
7-2B11S		11	
7-2B22S		22	

### Reference

- A new intraductal radiofrequency ablation device for inoperable biliopancreatic tumors complicated by obstructive jaundice: the IGNITE-1 study by Wim Laleman et al [Endoscopy. 2017 Oct;49(10):977-982]
- Efficacy of endobiliary radiofrequency ablation for malignant distal biliary obstruction: multicenter experience of temperature controlled radiofrequency ablation by Eui Joo Kim et al
- Novel temperature-controlled RFA probe for treatment of blocked metal biliary stents in patients with pancreaticobiliary cancers: initial experience by Nayar ManuK et al [Endosc Int Open. 2018 May;6(5):E513-E517]
- Temperature controlled intraductal radiofrequency ablation for hilar cholangiocarcinoma by Dong Uk Kim [2015 DDW Abstract]
- Safety and effectiveness of endobiliary radiofrequency ablation according to the different power and target temperature in a swine model by Jae Hee Cho et al [J Gastroenterol Hepatol. 2017 Feb;32(2):521-526]