Medtronic

## Comparison Guide

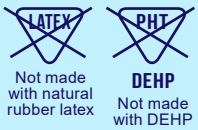
# Shiley™ adult flexible tracheostomy tube XLT

## For patients who need additional length

The Shiley™ adult flexible tracheostomy tube XLT offers inclusive tracheostomy solutions for patients who need extra proximal or distal length. This guide provides a comparative overview of the legacy Shiley™ XLT tracheostomy tube vs. the updated Shiley™ adult flexible tracheostomy tube XLT.


Legacy Shiley™ XLT tracheostomy tube

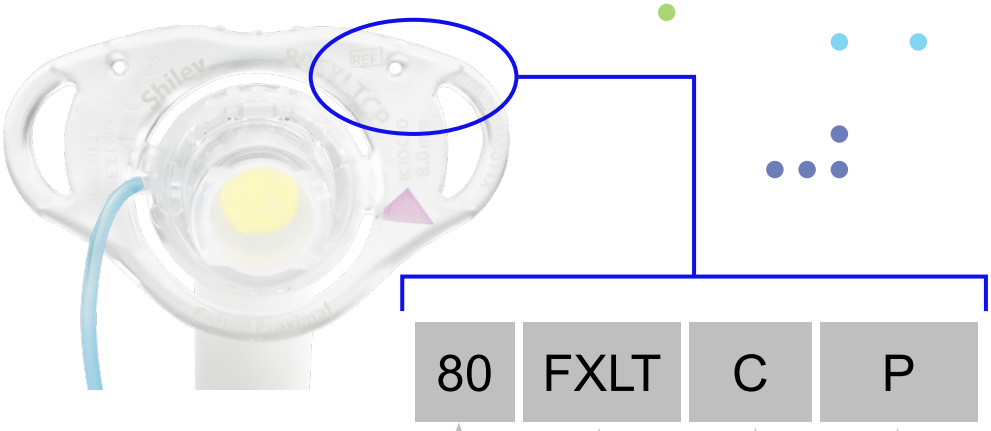
Shiley™ adult flexible tracheostomy tube XLT

| | Legacy Shiley™ XLT tracheostomy tube | Shiley™ adult flexible tracheostomy tube XLT |
|---|---|---|
| **Flange** | • Flange is a soft material over-molded on rigid frame<br>• White, opaque color does not allow for visualization of underlying skin<br>• Swivel neck with tracheostomy ties for securing | • A softer, translucent flange design may reduce the risk of skin breakdown[1]<br>• Gaps in the flange that reduce points of contact[1]<br>• Openings around the flange are designed to improve airflow to sensitive skin[1]<br>• The flange is offset to help reduce contact with the patient's skin[1] |
| **Materials of concern** | • PVC material with DEHP | • Made without materials of concern<br>• Made with a non-DEHP PVC material; DEHP can lead to toxic health effects, including endocrine system disruption[2]<br>• Not made with natural rubber latex<br>  |
| **Outer cannula** | • Clear thermosensitive PVC with X-ray line | • Radiopaque, thermosensitive PVC<br>• Fully detectable by X-ray |
| **Inner cannula** | • Extended-length, disposable inner cannula<br>• Integral 15 mm twist-lock connector | • Extended-length, disposable inner cannula<br>• Flexible material that conforms to the outer cannula<br>• Unique snap-lock mechanism that easily secures inner cannula in 15 mm connector<br>• Inner cannula can be visually detected when the tracheostomy tube is connected to a breathing circuit, without disconnecting the circuit<br>• It is possible to ventilate with or without the inner cannula |
| **15 mm connector** | • 15 mm connector is part of the disposable inner cannula | • Integrated 15 mm connector enables ventilation with or without an inner cannula |
| **Cuff** | • High-volume, low-pressure barrel-shaped cuff | Features a low-pressure TaperGuard™ cuff, which:†<br>• Improves air seal by over 100%<br>• Improves ability to titrate ventilator air leaks at 0cmH$^2$0 by 12.64% and at 20/25cmH$^2$0 by greater than 100%<br>• Increases airflow around the outer cannula when the cuff is deflated by over 100%<br>• Reduces insertion force by more than 5%<br>• Is made with a non-DEHP PVC material |
| **Tip** | • Rounded straight | • The beveled tip eases percutaneous insertion |

The below items remain consistent between the legacy Shiley™ XLT tracheostomy tube and the updated Shiley™ adult flexible tracheostomy tube XLT.

| | |
|---|---|
| **Length configuration** | • Extra proximal and extra distal length options |
| **Curve** | • 90-degree angle |
| **Sizes** | • Four size options: ISO sizes 5.0, 6.0, 7.0, and 8.0<br>(ISO size refers to the inner cannula inner diameter or I.D.) |
| **MRI use** | • MRI safe for cuffless tubes<br>• MRI conditional for cuffed tubes |
| **Compatible accessories** | • Can be used with the Shiley™ CAP and Shiley™ speaking valves |

## Product code logic and sizing




### ISO size
Indicates the size of the outer cannula, inner diameter in mm
Ranges from **5.0 to 8.0 mm**

### Product version
Indicates that this product is extended length
**F** indicates flex platform
**XLT** indicates extended length

### Product type
Indicates the extended length configuration
**P** indicates proximal extension of tube
**D** indicates distral extension of tube

### Cuffed or cuffless
Indicates whether the product is cuffed or cuffless
**C** indicates product is cuffed
**U** indicates product is uncuffed

# Order information

50FXLTCP

60FXLTCP

70FXLTCP

80FXLTCP

## Extended proximal length

| Cuffed | Cuffless | Outer cannula outer diameter (O.D.) | Outer cannula inner diameter (I.D.) | Inner cannula inner diameter (I.D.) | Total length | Proximal length | Radius length | Distal length | Cuff resting diameter | Angle |
|---|---|---|---|---|---|---|---|---|---|---|
| 50FXLTCP | 50FXLTUP | 9.6mm | 5.0mm | 5.0mm | 90.0mm | 20.0mm | 37.0mm | 33.0mm | 20.6mm | 90° |
| 60FXLTCP | 60FXLTUP | 11.0mm | 6.0mm | 6.0mm | 95.0mm | 23.0mm | 38.0mm | 34.0mm | 25.4mm | 90° |
| 70FXLTCP | 70FXLTUP | 12.3mm | 7.0mm | 7.0mm | 100.0mm | 27.0mm | 39.0mm | 34.0mm | 26.6mm | 90° |
| 80FXLTCP | 80FXLTUP | 13.3mm | 8.0mm | 8.0mm | 105.0mm | 30.0mm | 40.0mm | 35.0mm | 28.6mm | 90° |

50FXLTCD

60FXLTCD

70FXLTCD

80FXLTCD

## Extended distal length

| Cuffed | Cuffless | Outer cannula outer diameter (O.D.) | Outer cannula inner diameter (I.D.) | Inner cannula inner diameter (I.D.) | Total length | Proximal length | Radius length | Distal length | Cuff resting diameter | Angle |
|---|---|---|---|---|---|---|---|---|---|---|
| 50FXLTCD | 50FXLTUD | 9.6mm | 5.0mm | 5.0mm | 90.0mm | 5.0mm | 37.0mm | 48.0mm | 20.6mm | 90° |
| 60FXLTCD | 60FXLTUD | 11.0mm | 6.0mm | 6.0mm | 95.0mm | 8.0mm | 38.0mm | 49.0mm | 25.4mm | 90° |
| 70FXLTCD | 70FXLTUD | 12.3mm | 7.0mm | 7.0mm | 100.0mm | 12.0mm | 39.0mm | 49.0mm | 26.6mm | 90° |
| 80FXLTCD | 80FXLTUD | 13.3mm | 8.0mm | 8.0mm | 105.0mm | 15.0mm | 40.0mm | 50.0mm | 28.6mm | 90° |

## Inner cannula

| Inner Cannula | Inner cannula inner diameter (I.D.) | Total length | Radius length |
|---|---|---|---|
| 50FXLTIN | 5.0mm | 90.0mm | 37.0mm |
| 60FXLTIN | 6.0mm | 95.0mm | 38.0mm |
| 70FXLTIN | 7.0mm | 100.0mm | 39.0mm |
| 80FXLTIN | 8.0mm | 105.0mm | 40.0mm |

Note: The inner diameter of the inner cannula and the inner diameter of the outer cannula are the same.

† As compared to the earlier generation of Shiley™ XLT tubes, in an internal benchtop test. Bench testing may not be indicative of clinical performance.


1. Dixon LM, Mascioli S, Mixell JH, Gillin T, Upchurch CN, Bradley KM. Reducing Tracheostomy-Related Pressure Injuries. AACN Advanced Critical Care. 2018;29(4):426-431. doi:https://doi.org/10.4037/aacnacc2018426
2. Wang Y, Qian H. Phthalates and Their Impacts on Human Health. Healthcare (Basel). 2021;9(5):603.

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