

TC-314-1-IP  
 Rev A, Feb 2017  
 www.commscope.com

## Inflatable duct seal for telephone cable ducts

### 1 Application

TDUX-90S and TDUX-100S are special sizes to seal ducts occupied with very large cable diameters. For these sizes a min. cable diameter is specified. To seal empty ducts, we recommend to use the standard TDUX sizes. TDUX will seal ducts with cable while water is flowing out of the duct. Avoid exposure of installed TDUX duct seal to direct sunlight.

### 2 Selection table (dimensions in mm)

Maximum cable diameter for duct with 1 cable.

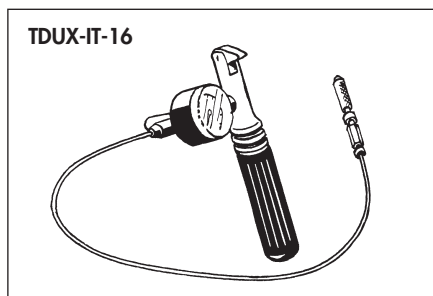
Product description Duct inside ø	TDUX-90S		TDUX-100S	
	min. cable	max. cable	min. cable	max. cable
100			50	83
90	40	72		
85	35	70		
80	30	62		

### 4 Unit packaging

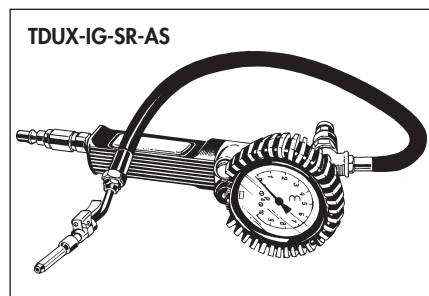
TDUX duct seals are packet per 10 pcs/box, including 1 lubricant dispenser and 1 installation instruction.

### 5 Tooling

TDUX duct seals can be installed with a variety of inflation tools, having the capability to inflate TDUX to  $3,0 \pm 0,2$  bar of pressure. Following tools are available from Raychem

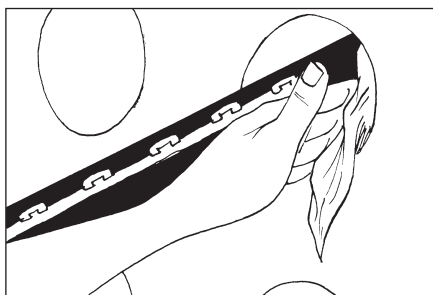


A Inflation tool using compressed CO<sub>2</sub> gas cylinders (to be ordered separately) equipped with a manometer and safety relieve valve.

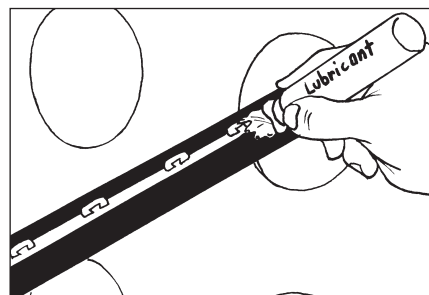


B Inflation gun to be connected to pressurised air bottle, pump or compressor. The inlet pressure to the inflation gun should be min. 4 bar and max. 10 bar.

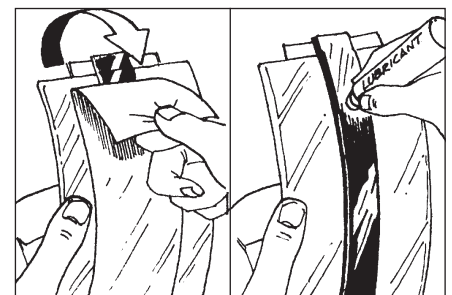
### 5 Installation procedure



5.1 It is recommended to wet clean the duct and cable sheath.



5.2 For ease of installation, lubricate the cable sheath.



5.3 Remove the protective paper from the outside of the sealing strip and lubricate abundantly.

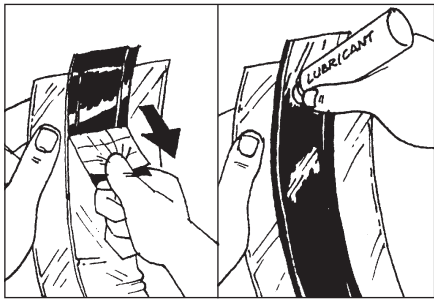
### 3 Safety rules

#### Lubricant.

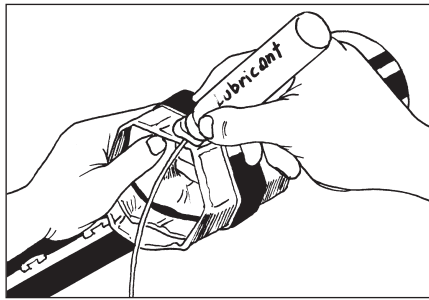
Protect from frost. In case of eye contact, flush with clean water during 15 minutes, holding eyelids open. Seek medical attention if irritation persists. Wash with mild soap and water if skin irritation occurs.

#### Gas cylinders.

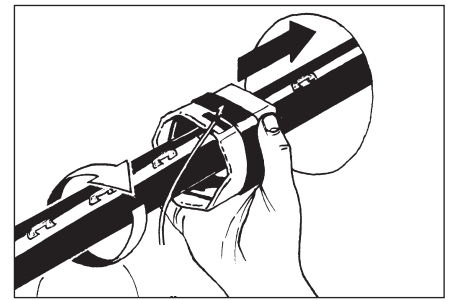
If the carbon dioxide gas cylinders are used to inflate TDUX, following safety rules should be considered. The gas pressure in the cylinder is approximately 60 bar (900 lbf/in<sup>2</sup>) at room temperature. Max. operational temperature is 50°C. Keep cool and dry. Use only as instructed in operating manual of TDUX-IT-16 inflator. Misuse can be dangerous. Do not handle the cylinder with unprotected hands immediately after filling a TDUX duct seal. Frostbite can result.



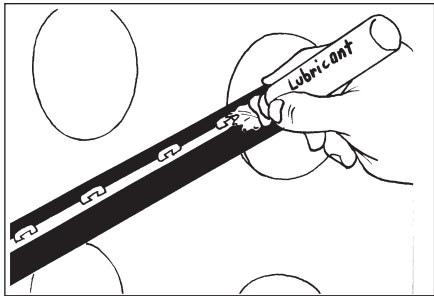
5.4 Continue with lubrication of the inside of the sealing strip.  
Lubricate also the sealing strip at the outside of the product.



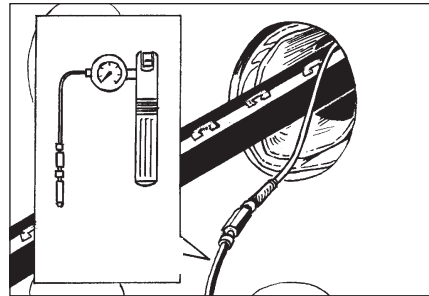
5.5 Lubricate the filling tube on the TDUX section.



5.6 Wrap TDUX around the cable and slide completely into the duct.

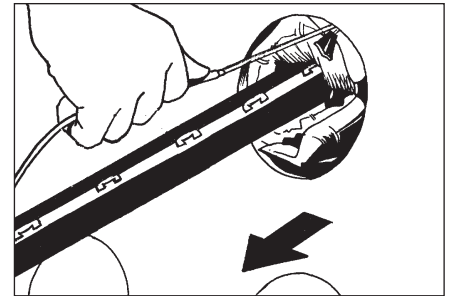


5.7 Connect the filling tube to the tube-snap of the inflation tool.



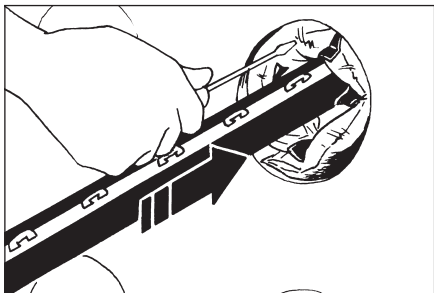
5.8 Inflate TDUX up to the pressure of 3,0 bar and keep the pressure at  $3.0 \pm 0,2$  bar during 30 seconds.

**Note:** please refer to the operating manual for the specific inflation tool being used.

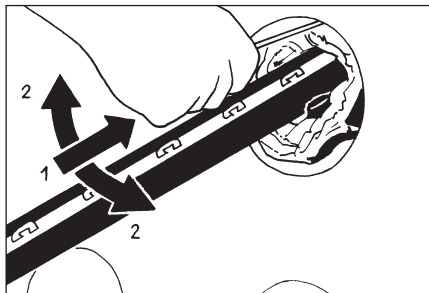


5.9 Pull-out the filling tube with a pair of pliers, in one gentle move in the direction of the cable.

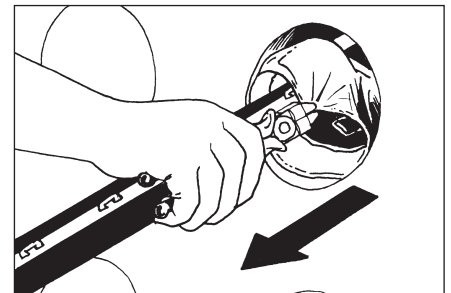
## 6 Removal



6.1 Deflate TDUX by piercing with a screw-driver.



6.2 Release TDUX from the duct and from the cable sheath with a blunt tool.



6.3 Pull TDUX out of the duct with a pair of pliers.