## INSTALLATION INSTRUCTIONS SECTION INSULATOR LT Edition 2012/05



### Accessories for Installation of the FLURY light section insulator

- 1 Torque wrench 15 and 17 mm (50 Nmt)  $\,$
- 1 Level gauge (item no 655.141.000)
- 1 Wire cutter (maybe metal saw)
- 1 Hammer
- 1 Straightening wood 1 Flat file
- 1 Pulley block with 2 cable sockets





**13.** Adjust the runners if necessary by pushing up by hand and tighten the flange nuts firmly with 40 Nm.



### Maintenance and Service

A well adjusted section insulator of Arthur Flury AG does not require any maintenance for a long period of time.

#### Insulator

The PTFE cover of the insulating rod is cleaned well enough by rain water under normal circumstances. In case of exceptionally strong dirt accumulation (for instance from frequent diesel traffic, installation in a tunnel and so on) we suggest cleaning the insulator every 2-3 years with our Special Cleaner for High Voltage Insulators (order no 655.168.000). The insulator must be replaced if the GRP rod becomes visible through damage of the PTFE cover.

#### Runners

Well adjusted runners need to be checked first after approximately 200'000 to 300'000 passages of current collectors. Should the wear have reached the maximum value (bulb only 1-2 mm thick) the runners must be replaced.



# Caution! Danger of accident if these points are not observed:

- The screws at the contact wire clamps must be retightened three times. Otherwise the teeth do not grip the contact wire material completely. The contact wire could therefore slide out later and falling parts could cause damage of material or even injure people.
- The screws must be restrained with a ring wrench when tightening the counternuts at the contact wire clamps. The screws could otherwise get loosened when tightening the counternuts and this could cause the contact wire to slide out, damage material and injure people.
- The runners of the section insulator must be correctly adjusted as described. Otherwise shocks might damage the section insulator or the carbon sliders.
- Turnbuckles, if available, must be locked with counternuts and secured with locking wires. These could otherwise open and the resulting incorrect position of the section insulator could cause malfunction of the overhead line.
- All screws and nuts must be tightened correctly according to the description. They could otherwise become loosened by vibration and cause malfunction of the overhead line.
- Should the protective plastic finish of PTFE of one of our insulators be so severely damaged, either that the glass fiber inside is visible or that humidity and dirt can obviously penetrate, the insulator must be replaced immediately. Otherwise a high-voltage flash-over could damage the insulator and the overhead line.
- A stationary pantograph, directly under the section insulator, may cause sufficient overheating to damage the runners.
- Arthur Flury AG rejects responsibility for any damage caused by not observing this installation instruction.

! RISK OF DEATH ! Do not begin to work on the overhead line before you have ensured that it is switched off and correctly grounded!