



Sealing Cap Permanent Size 52-7/-10/-12/-14/-16 INSTALLATION INSTRUCTION

Application

For the permanent sealing of micro duct bundles with up to 52mm outside diameter and long-term underground storage. Whole bundle of micro ducts is sealed cost-effectively in one operation. The patented* sealing cap has control pins which indicate a correct installation. Depending on the version, the sealing cap suits for micro duct bundles with or without a central micro duct. For fixation of sealing cap on bundle, either the central micro duct or a micro duct in the middle of the bundle is used. For easy installation the sealing cap has a central thorn with self-tapping thread. For temporary sealing during transport and storage also reusable sealing caps are available.



Scope of delivery

Sealing cap with control pins for indication of correct installation, filled with sealing compound, packed in card board box. Order quantity 50 piece in a box.

Capacity

| Micro duct bundle type | Cap size Order No. | 52-7 01-047-03 A | 52-10 01-021-03 A | 52-12 01-048-03 A | 52-14 01-049-03 A | 52-16 01-050-03 A |
|--|--------------------|--------------------------|---|----------------------|----------------------|----------------------|
| Number micro ducts 7x 1.5mm ²⁾ no central micro duct | | 6/7/8/12/14/ 18/19/24 | - | - | - | -- |
| central micro duct 12x 2mm ²⁾ | | - | - | 7/22 | - | - |
| central micro duct 14x 2mm ²⁾ | | - | - | - | 12/14/22/24 | - |
| Number micro ducts 10x 2mm ²⁾ no central micro duct | | - | 2/3/4/5/6/7/8/ 9/10/11/12/24 ¹⁾ | - | - | - |
| Number micro ducts 12x 2mm ²⁾ no central micro duct | | - | - | 4/5/6/7/8/ 10/12 | - | - |
| Number micro ducts 14x 2mm ²⁾ no central micro duct | | - | - | - | 3/4/5/6/7 | - |
| Number micro ducts 16x 2mm ²⁾ no central micro duct | | - | - | - | - | 3/4/5/6/7 |

¹⁾ Note for bundle 24x10: use 2 sealing caps of size 12x10

²⁾ Tolerances shall apply for micro ducts according to DIN EN 50411-6-1 und DIN EN 60794-5-ff

*Patented for Elitex GmbH, EP Patent No. 13153451.3

Tools

Before installation of a sealing cap, the micro duct bundle must be cut rectangular with suitable tools according to duct manufacture guideline. Cutting must not be made with chipping tools (i.e. saw).



Important instructions

- Installation is displayed with sealing cap size 52-14. Instruction is valid also for all other sizes.
- Before starting installation, check if the end of the micro duct bundle is clean of dirt pollution.
- The end of micro duct bundle need a straight, vertical, clean cut with a tool recommended by duct manufacture. Cutting must not be made with chipping tools (i.e. saw).
- Due to diameter tolerances of the micro ducts, different force may appear for installing the sealing cap.
- Permanent sealing cap must be installed only once.

1. Selection of matching sealing cap

Please select sealing cap accordingly to your micro duct bundle. Description of cap size i.e. 52-14 indicates max outer diameter of bundle (52mm) and the size of center thorn (14mm) for fixation of the sealing cap at a central micro duct of 14x2mm. Sealing cap size 52-7x1.5, 52-10x2 and 52-16x2 are suitable for micro duct bundle without central micro duct. For fixation of those sealing cap on bundle use a micro duct in the middle of the bundle. Please also follow according notes in the installation instruction.



1.1 During installation of micro duct bundle a temporary sealing cap should be used. After laying micro duct bundle straight in the trench, temporary sealing cap can be removed.



1.2 For cutting end of micro duct bundle use a tool recommended by duct manufacture.

Note: Cutting must not be made with chipping tools (i.e. saw).



1.3 Cut end of micro duct bundle vertical and straight.



1.4 To prevent sealing compound of cap from pollution, take it out of cardboard box just now.

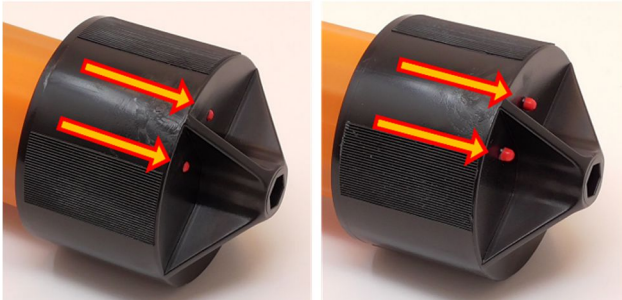


1.5 Position central thorn in front of central tube from micro duct bundle.

Note: In case of bundle without central micro duct, chose a micro duct which is in central position of bundle.



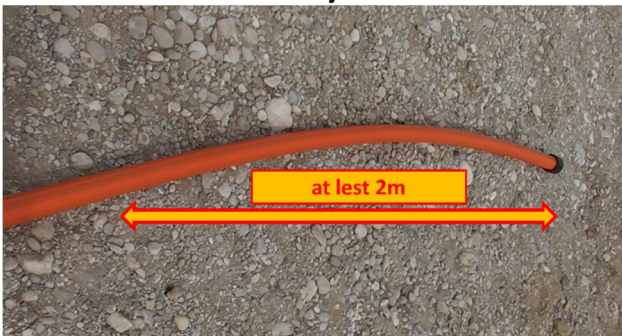
1.6 Press sealing cap on duct bundle and turn it clockwise all the way till stop (hand-tight).



1.7 The sealing cap has control pins. In case of a correct installation, control pins stick out of cap. Sealing compound might appear also outside of cap. This is a normal effect and has no influence on sealing performance.

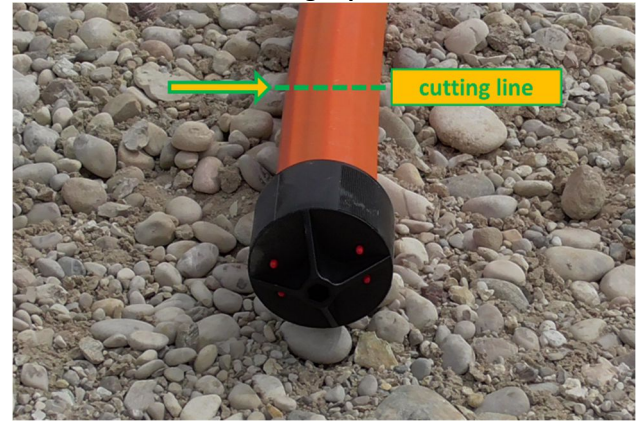
Important Note: Permanent sealing cap must be installed only once.

2. Dismantle of bundle jacket



For sealing performance of permanent sealing cap it is crucial to keep at least 2m (i.e. till 1st branch) of the jacket on bundle behind cap

3. Removal of sealing cap



To remove permanent sealing cap, cut micro duct bundle at least 10-15cm behind the cap (cutting line).

Afterwards duct bundle could be installed further as usual.

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