Patent claims

1. Electrofusion tape (1) for welding together with plastics pipes in particular for use in a fixed-point fastening, consisting of a jacket element (2) preferably of an electrically insulating plastics material, at least one heating element (3) of electrically conductive plastics material and at least two contact elements (6) for supplying electricity to the heating element (3), characterized in that the jacket element (2) and the heating element (3) take the form of tapes, wherein the jacket element (2) surrounds the heating element (3) at least in part, wherein the contact elements (6) are arranged in the mutually opposing marginal regions (4) of the heating element (3) and extend parallel to one another along the heating element (3), wherein in that the heating element (3) is displaceable neither sideways nor transversely of the longitudinal direction of the tape, the heating element (3) being arranged so as to be displaceable in the jacket element (2) solely in the longitudinal direction (5) of the tape.

2. Electrofusion tape (1) according to Claim 1, characterized in that the specific conductivity of the contact elements (6) is higher than the specific conductivity of the heating element (3), preferably at least ten times, especially preferably at least one hundred times, higher.

3. Electrofusion tape (1) according to Claim 1, characterized in that the heating element (3) of electrically conductive plastics material has a specific electrical resistance of 0.1 – 100 [Ω x cm], preferably of 0.1 – 10 [Ω x cm].

4. Electrofusion tape (1) according to Claim 1 or 2, characterized in that the contact elements (6) are made of metal, preferably of copper or of endless carbon fibre or of an electrically conductive plastics compound with carbon nanotubes, graphite, graphene or with a metallic filler.

5. Electrofusion tape (1) according to one of the preceding claims, characterized in that the contact elements (6) take the form of wire or wire braid.

6. Electrofusion tape (1) according to one of the preceding claims, characterized in that the jacket element (2) and the heating element (3) are manufactured on

the basis of the same grade of plastics material, preferably on the basis of a thermoplastic, a thermoplastic polyolefin being especially preferred.

7. Electrofusion tape (1) according to one of the preceding claims, characterized in that the heating element (3) is arranged form-fittingly in the jacket element (2).

8. Electrofusion tape (1) according to one of the preceding claims, characterized in that the electrofusion tape (1) has a wraparound guide or is configured as such and the heating element (3) is guided by the jacket element (2), wherein the heating element (3) is gripped around at least in part by the jacket element (3).

9. Electrofusion tape (1) according to one of the preceding claims, characterized in that in the cross-section of the electrofusion tape (1) the width or diameter of the contact element (6) is less than or equal to the thickness (8) of the heating element (3) in the region of the contact face between contact element (6) and heating element

10. Electrofusion tape (1) according to one of the preceding claims, characterized in that the jacket element (2) and the heating element (3) have a dovetail guide or a T-slot guide or take the form of a dovetail guide or T-slot guide.

11. Electrofusion tape (1) according to one of the preceding claims, characterized in that the heating element (3) has anchors (9) for connection with the jacket element (2).

12. Use of an electrofusion tape (1) according to one of Claims 1 to 11 in a fixed-point fastening (11) for a pipe, wherein the electrofusion tape (1) is preferably manufactured as endless tape and may be cut individually to length and is encompassed by a pipe clamp (10) of the fixed-point fastening (11) or the pipe clamp (10) is arranged axially offset relative to the electrofusion tape on the pipe and serves as an axial limit stop.

13. Method for producing an electrofusion tape (1) according to one of Claims 1 to 11, characterized in that the heating element (3) with the contact elements (6) arranged therein and the jacket element (2) are produced separately by extrusion and the heating element (3) and the jacket element (2) are fitted together after extrusion.