

CLAIMS

What is claimed is

- 5 1. An implantable electrode lead (1), comprising
at least one electrode pole (130) and
a plurality of electrical conductors (121-124), at least one of which is
electrically connected to the at least one electrode pole (130),
- 10 **characterised in that**
- the plurality of conductors (121-124) are connected to one another to form a braid
(12) extending along a longitudinal axis (A), at least one first conductor (121, 122) of
the plurality of conductors (121-124) being helically wound about the longitudinal
15 axis (A) in a first direction of rotation (D1), and at least one second conductor (123,
124) of the plurality of conductors (121-124) being helically wound about the
longitudinal axis (A) in a second direction of rotation (D2), which is opposite the
first direction of rotation (D1).
- 20 2. The implantable electrode lead (1) according to claim 1, **characterised in that** the
braid (12) has a length (L), the plurality of conductors (121-124) extending along the
length (L) of the braid (12).
3. The implantable electrode lead (1) according to claim 1 or 2, **characterised in that**
25 the plurality of conductors (121-124) are arranged on an inner tube (11) and are
wound around the inner tube (11).
4. The implantable electrode lead (1) according to any one of claims 1 to 3,
characterised in that the at least one first conductor (121, 122) is electrically
30 connected to the at least one electrode pole (130) at a first connection point (132) and
the at least one second conductor (123, 124) is electrically connected to the at least
one first conductor (121, 122) at a second connection point (128).

5. The implantable electrode lead (1) according to any one of the preceding claims, **characterised in that** the at least one first conductor (121, 122) and/or the at least one second conductor (123, 124) has at least one interruption point (127) at which
5 the at least one first conductor (121, 122) and/or the at least one second conductor (123, 124) is electrically interrupted.
6. The implantable electrode lead (1) according to any of the preceding claims, **characterised in that** the at least one electrode pole (130) is annular and extends
10 circumferentially about the longitudinal axis (A) around the braid (12).
7. The implantable electrode lead (1) according to any of the preceding claims, **characterised in that** the at least one electrode pole (130) is electrically connected at a connection point (132) to a conductor of the plurality of conductors (121-124)
15 extending therebeneath.
8. The implantable electrode lead (1) according to any of the preceding claims, **characterized in that** at least some conductors of the plurality of conductors (121-124) are each associated with at least one accompanying fibre (125, 126) which
20 extends parallel to the particular conductor.
9. The implantable electrode lead (1) according to claim 8, **characterised in that** the accompanying fibre (125, 126) is made of an electrically insulating material.
- 25 10. The implantable electrode lead (1) according to claim 8 or 9, **characterised in that** each conductor, measured radially to the longitudinal axis (A), has a first thickness (B1) and the associated at least one accompanying fibre (125, 126) has a second thickness (B2), the second thickness (B2) being greater than the first thickness (B1).
- 30 11. The implantable electrode lead (1) according to any one of the preceding claims, **characterised by** at least one electrical contact element (140) for electrically connecting the implantable electrode lead (1) to an active device (2).

12. A method for producing an implantable electrode lead (1), comprising the steps of:
providing at least one electrode pole (130); and
providing a plurality of electrical conductors (121-124), at least one of
5 which is to be electrically connected to the at least one electrode pole (130), the
plurality of conductors (121-124) being interconnected to form a braid (12)
extending along a longitudinal axis (A), at least one first conductor (121, 122) of the
plurality of conductors (121-124) being helically wound about the longitudinal
axis (A) in a first direction of rotation (D1) and at least one second conductor (123, 124)
10 of the plurality of conductors (121-124) being helically wound about the longitudinal
axis (A) in a second direction of rotation (D2), which is opposite the first direction of
rotation (D1), and
connecting the at least one electrode pole (130) to at least one conductor of
the plurality of conductors (121-124).
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13. The method according to claim 12, **characterised in that** the at least one electrode
pole (130) has an opening (131), via which the at least one electrode pole (130) is
connected to at least one conductor of the plurality of conductors (121-124).
- 20 14. The method according to claim 12 or 13, **characterised in that** the braid (12) in an
initial state has a length (L), the plurality of electrical conductors (121-124)
extending along the length (L) of the braid (12).
- 25 15. The method according to any one of claims 12 to 14, **characterised in that** at least
one conductor of the plurality of conductors (121-124) is electrically interrupted at
an interruption point (127).