relative movement of the trailing edge and of the leading edge connected by the pivot connection.

[0020] Advantageously, the trailing edge comprises an intermediate arm connecting the two arms.

[0021] Advantageously, the core extends mainly along an axis, and, for the different leading edges and trailing edges, perpendicularly to the axis of the core, the fairing is located at a distance D with respect to the axis, and a distance d at which the leading edges are located is at least equal to half the distance D.

[0022] Advantageously, in a plane containing the axis, a projection of the leading edge is substantially rectangular, with one side being limited by the distance d. The trailing edge comprises a profile that ensures the hydrodynamic function of the trailing edge. A projection of the profile is substantially rectangular, with one of the sides being limited by the distance d and another of the sides being limited by the distance D.

[0023] Advantageously, ends of the side of the leading edge have rounded corners, and the profile is configured to follow the rounded corners.

[0024] Advantageously, the leading edges and the trailing edges are in one piece and made of homogeneous materials, and a Young's modulus of the material forming the leading edges is greater than a Young's modulus of the material forming the trailing edges.

[0025] Advantageously, rings fastened to the core are distributed regularly along the core, the leading edges being able to bear on the rings. The rings are disposed between two adjacent leading edges.

[0026] Advantageously, the core extends mainly along an axis. Each leading edge comprises a channel which extends substantially along an axis and in which the core is disposed. The channel widens on either side of a median section of the leading edge, the median section being perpendicular to the axis of the channel.

[0027]

CLAIMS

1. A faired towing cable intended to tow a submersible body (12), the cable (14) comprising a core (24) and a fairing (26, 28) joined to the core (24), the fairing (26, 28) being profiled so as to reduce the hydrodynamic drag of the cable (14), the fairing comprising several leading edges (26) and several trailing edges (28) joined to the leading edges (26), characterized in that one trailing edge (28) is held directly on two adjacent leading edges (26), in that the leading edges (26) and the trailing edges (28) are in one piece and made of homogeneous materials, and in that a Young's modulus of the material forming the leading edges (26) is greater than a Young's modulus of the material forming the trailing edges (28).

2. The cable as claimed in claim 1, characterized in that the core extends mainly along an axis (30), and in that the trailing edges (28) are disposed in a staggered manner with respect to the leading edges (26) along the axis (30).

3. The cable as claimed in either of the preceding claims, characterized in that the core (24) extends mainly along an axis (30), in that the leading edges (26) form a shell folded around the core (24), in that the trailing edges (28) are formed of a profile (28a) that ensures the hydrodynamic function of the trailing edge (28) and of two arms (28b, 28c) that are each disposed inside one of the two adjacent leading edges (26), in that each arm (28b, 28c) extends at least in a direction perpendicular to the axis (30), and in that each arm (28b, 28c) is held on the corresponding leading edge (26).

4. The cable as claimed in claim 3, characterized in that each arm (28b, 28c) comprises two ends (28b1, 28b2, 28c1, 28c2), a first (28b1, 28c1) of which is secured to the profile (28a) and a second (28b2, 28c2) of which is free, and in that each arm (28b, 28c) is held on the corresponding leading edge (26) at its second end (28b2, 28c2).

5. The cable as claimed in claim 4, characterized in that each arm (28b, 28c) is held on the leading edge (26) by a pivot connection (44).

6. The cable as claimed in claim 5, characterized in that the pivot connection (44) is disposed at the second, free end (28b2, 28c2) of the corresponding arm (28b, 28c), and in that each leading edge (26) comprises two stops (70) that can each come into contact with a corresponding one of the arms (28b, 28c) so as to limit the relative movement of the trailing edge (28) and of the leading edge (26) connected by the pivot connection (44).

7. The cable as claimed in one of claims 3 to 5, characterized in that the trailing edge (28) comprises an intermediate arm (28d) connecting the two arms (28b or 28c).

8. The cable as claimed in one of the preceding claims, characterized in that the core (24) extends mainly along an axis (30), and in that, for the different leading edges (26) and trailing edges (28), perpendicularly to the axis (30) of the core (24), the fairing (26, 28) is located at a distance D with respect to the axis (30), and in that a distance d at which the leading edges (26) are located is at least equal to half the distance D.

9. The cable as claimed in claim 7, characterized in that, in a plane containing the axis (30), a projection of the leading edge (26) is substantially rectangular, with one side (36) being limited by the distance d, in that the trailing edge (28) comprises a profile (28a) that ensures the hydrodynamic function of the trailing edge (28), and in that a projection of the profile (28a) is substantially rectangular, with one of the sides (38) being limited by the distance d and another of the sides (40) being limited by the distance D.

10. The cable as claimed in claim 8, characterized in that ends of the side (36) of the leading edge (26) have rounded corners (42), and in that the profile (28a) is configured to follow the rounded corners (42).

11. The cable as claimed in one of the preceding claims, characterized in that rings (56) fastened to the core (24) are distributed regularly along the core (24), the leading edges (26) being able to bear on the rings, and in that the rings (56) are disposed between two adjacent leading edges (26).

12. The cable as claimed in one of the preceding claims, characterized in that the core (24) extends mainly along an axis (30), in that each leading edge (26) comprises a channel (32) which extends substantially along an axis (60) and in which the core (24) is disposed, and in that the channel (32) widens on either side of a median section (62) of the leading edge (26), the median section (62) being perpendicular to the axis (60) of the channel (32).