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 <u>when dependent on any one of claims 3 to 7</u>, 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)~~.