CLAIMS

1. A submarine photoelectric composite cable, comprising an optical fiber component, a conductor layer, a shield layer, a protective layer, an armor layer and an outer sheath layer sequentially cladded from inside to outside, wherein the conductor layer comprises conductor components, the conductor components are twisted outside the optical fiber component, the submarine photoelectric composite cable further comprises ground wire components, the ground wire components are filled in gaps between the conductor layer and the shield layer and/or between the conductor layer and the optical fiber component, the conductor components comprise conductors, a cross section of each conductor along a radial direction of the conductor components is a first cross section, the ground wire components comprise second conductors, cross sections of the second conductors along a radial direction of the ground wire components are second cross sections, any one of the first cross sections has an area smaller than areas of the second cross sections, the optical fiber component comprises an optical fiber unit and a thermal insulation layer, the thermal insulation layer is cladded outside the optical fiber unit;

wherein the optical fiber unit comprises an optical fiber tube and a first protective layer, and the first protective layer is cladded outside the optical fiber tube, and the thermal insulation layer is cladded outside the first protective layer; and wherein the thermal insulation layer is made of one or more of mica and asbestos;

wherein the optical fiber tube comprises an optical fiber, a waterproof ointment and a stainless steel tube, the optical fiber is installed in the stainless steel tube, and the waterproof ointment is filled in the stainless steel tube.

2. The submarine photoelectric composite cable according to claim 1, wherein the submarine photoelectric composite cable further comprises a waterproof material, and the waterproof material is filled in twisted gaps between the optical fiber component, the conductor components and the ground wire components.

3. The submarine photoelectric composite cable according to claim 1, wherein the ground wire components further comprise semi-conductive protective layers, and the semi-conductive protective layers are cladded outside the second conductors.

4. The submarine photoelectric composite cable according to claim 1, wherein the optical fiber unit is distributed at an axis position of the submarine photoelectric

composite cable.

5. The submarine photoelectric composite cable according to claim 1, wherein the conductor components further comprise insulation layers, and the insulation layers are cladded outside the conductors.

6. The submarine photoelectric composite cable according to claim 1, wherein the armor layer comprises a reinforcement member, and the reinforcement member is twisted outside the protective layer to form an armor structure.

7. The submarine photoelectric composite cable according to claim 6, wherein the armor structure has 1 to 6 layers.

8. The submarine photoelectric composite cable according to claim 7, wherein a gap between the armor structures is filled with waterproof asphalt.