CLAIMS

What is claimed is:

1. An optical cable, comprising an outer sheath, a single main optical fiber, and at least two strength members, wherein

the main optical fiber and the strength members are all located inside the outer sheath, and the main optical fiber and the strength members have a same extension direction;

the at least two strength members are spaced apart on an outer periphery of the main optical fiber, and at least one strength member is an auxiliary optical fiber; and

every auxiliary optical fiber in the optical cable is spaced apart from the main optical fiber.

2. The optical cable according to claim 1, wherein the at least two strength members are arranged on two sides of the main optical fiber along a first radial direction, and each strength member is an auxiliary optical fiber.

3. The optical cable according to claim 2, wherein a plurality of strength members located on a same side of the main optical fiber are arranged along a first direction, wherein

there is an angle between the first direction and the first radial direction.

4. The optical cable according to claim 3, wherein the first direction and the first radial direction are perpendicular to each other.

5. The optical cable according to any one of claims 1 to 4, wherein the optical cable further comprises a tight sleeve, and the tight sleeve is sleeved on an outer surface of the main optical fiber; and

the outer sheath and the tight sleeve are both made of transparent materials, and manufacturing materials of the outer sheath and the tight sleeve both comprise any one or more of polyvinyl chloride, nylon, and thermoplastic polyurethane elastomer rubber.

6. The optical cable according to any one of claims 1 to 5, wherein the optical cable further comprises an adhesive layer and an anti-adhesive layer; and

the adhesive layer is arranged on at least a part of a surface of the outer sheath, and the anti-adhesive layer is adhered to a surface of the adhesive layer.

7. The optical cable according to claim 6, wherein at least a part of an outer surface of the outer sheath is configured as a plane, and the adhesive layer is arranged on the plane.

8. The optical cable according to claim 6 or 7, wherein the adhesive layer is a transparent double-sided tape, and the transparent double-sided tape and the outer sheath are integrally formed as an integral part.

9. The optical cable according to any one of claims 2 to 4, wherein a first groove and a second groove are formed on the outer sheath, and the first groove and the second groove are provided

from one end of the outer sheath to the other end of the outer sheath along the extension direction, wherein

the first groove is arranged in a second radial direction of the main optical fiber, and the second groove is arranged in the first radial direction of the main optical fiber; and

the first radial direction and the second radial direction are perpendicular to each other.

10. The optical cable according to claim 9, wherein a width of the outer sheath in the first radial direction of the main optical fiber ranges from 1.5 mm to 2.0 mm, and a height of the outer sheath in the second radial direction of the main optical fiber ranges from 1.2 mm to 1.9 mm, wherein

the first radial direction and the second radial direction are perpendicular to each other.