ABSTRACT OF THE DISCLOSURE

A photoelectric composite medium-voltage shore power cable (1), the photoelectric composite medium-voltage shore power cable (1) includes a cable core (10), an inner sheath layer(20), a strengthening layer (30), and an outer layer (40) positioned in that order from the inside to the outside of the cable~~, the inner sheath layer (20) is wrapped around the cable core (10), the strengthening layer (30) is wrapped around the inner sheath layer (20), the outer sheath layer (40) is wrapped around the strengthening layer (30)~~; the cable core (10) includes three power cores (11) and a flexible optical unit (12), three of the power cores (11) are positioned in parallel and in contact with each other and are in a flatted-circle shape; gaps (110) are formed between every two adjacent power cores (11) and the inner sheath layer (20); the flexible optical unit (12) is positioned in the gap (110) and is in contact with two adjacent power cores (11). A manufacturing method of the photoelectric composite medium-voltage shore power cable (1) is disclosed~~, to provide a higher power transmission capacity, reduce the bending radius of the cable, improve the flexibility of the cable, and increase the current-carrying capacity of the cable while achieving the optical communication transmission function~~.