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 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.