

Abstract

The present invention relates to a self-standing cable tray facility comprising: and underground tunnel buried underground; a main frame formed in a shape corresponding to the inside shape of the underground tunnel, the main frame being fitted and installed to the inside of the underground tunnel; a plurality of support frames formed to extend horizontally on the inner surface of the main frame; a plurality of cradling members installed on the upper portion of respective support frames to cradle a power cable; a plurality of escape prevention units for preventing the power cable from escaping by pressurizing the power cable at the upper portion of respective cradling members; and a grating formed horizontally along the longitudinal direction of the underground tunnel near the inner lower portion of the underground tunnel. The present invention is advantageous in that the main frame, to which the cradling members for cradling the power cable and the support frames are coupled, is fabricated in a shape corresponding to the inside shape of the underground tunnel and is installed by fitting the main frame to the inside of the underground tunnel, thereby reducing the installation time of an underground power conduit and shortening the entire construction period, and cracking of the underground tunnel is prevented, thereby preventing the underground tunnel from being damaged.

(Figure 2)