

OPPC optical cable

Product Description

Optic fiber Composite Phase Line Cable (OPPC) combines fiber optic units with phase conductors, providing functions such as power transmission, lightning protection, and optical communication. Single mode optical fibers are encapsulated in high-strength protective tubes, filled with specialized protective materials, and twisted with highly conductive phase conductors to form a dual functional cable body. Used for 110kV and above high-voltage transmission lines, it can replace traditional phase lines, achieve synchronous transmission of electrical energy and optical signals, and is also suitable for the renovation of old lines. At the same time, it can conduct short-circuit current and lightning protection, and can also customize the structure according to needs to adapt to different engineering scenarios.

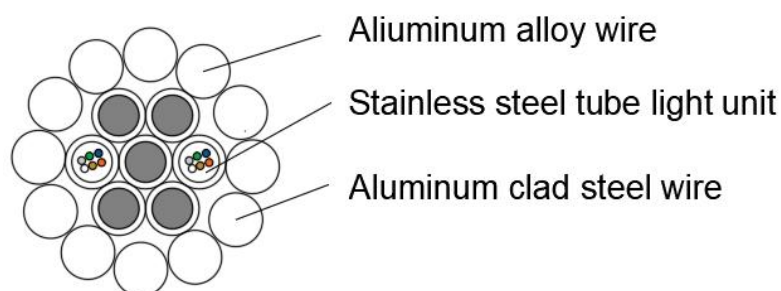
Product standard

According to IEC-60794-4-10-2014

Applications: It is used for communication in power system and has dual functions of phase line and communication

Product features

- The optical fiber is installed in the phase line to optimize the design of transmission line and save electric energy
- There is no serious accident of strand breaking and fiber breaking caused by thunder falling on the ground wire; More secure cable operation
- High economy
- There is no cable damage or fiber breakage caused by electric corrosion of optical cable due to the effect of electric field strength
- High security system
- There is no hidden danger caused by additional line load to the original line
- Natural anti-theft: both OPPC and connector box have high voltage and absolute anti-theft advantage



Application: Aerial

Operating Temperature: - 40℃ ~ +70℃

technical parameter

Fiber count	Bending radius (mm)	MAT (KN)	Short circuit current heat capacity($KA^2.S$)
2~72	20D	According to customer requirements	According to customer requirements