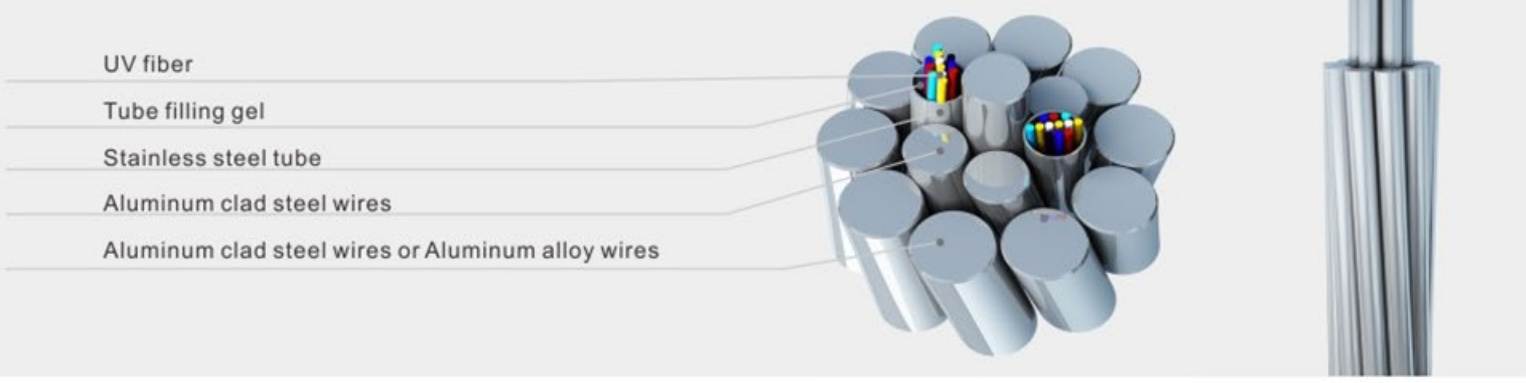
FiberHome

FiberHome Technologies

Stranded Stainless Steel Wire Optical Fiber Composite Overhead Ground Wire

OPGW-Aerial on high-voltage tower

- Aluminum wire
- Stranded stainless steel tube



Performance

Application

- The actual status of overhead power lines

Operating Temperature

- -40℃~+70℃

Features and Benefits

Stranded stainless steel tube
Anti-corrosion filling compound
Single layer of AS wires double/triple layers of both AS and AA wires
Strict craft and raw material control enable

Good mechanical and thermal protection
Protect optical fiber and cable
Large short-circuit current capacity
Lifespan over 30 years

Note

- The cable can be Aluminum clad steel wires or Aluminum alloy wires

Technical Specification

Max Fiber	Type	Aluminum clad steel wires (mm²)	Nominal Diameter (mm)	Nominal Weight (kg/km)	20℃ DC resistance (Ω/km)	40-200℃ Allowable shortcut current capacity (kA2.s)	Allowable Tensile Load (kN)
24	1/2.6/20AS+5/2.5/20AS+ 11/2.8/20AS 1/2.5OF	100	13.2	674	≤0.93	≥50	≥118
36	1/3.0/20AS+5/2.9/20AS+ 12/2.9/20AS1/2.8OF	120	14.6	820	≤0.77	≥73	≥145
48	1/3.4/20AS+5/3.3/20AS+ 12/3.3/20AS1/3.2OF	150	16.6	1055	≤0.60	≥123	≥182
72	1/3.2/40AS+4/3.0/40AS+ 12/3.0/40AS2/2.9OF	120	15.2	591	≤0.53	≥101	≥96

*Customized cable structure is available