【Photovoltaic cables】

DESCRIPTION

Photovoltaic lines are specifically designed for the DC side of solar power systems. They utilize tin-plated copper conductors and cross-linked polyethylene (XLPE) insulation, exhibiting UV resistance, high and low temperature resistance, and aging resistance. They can operate continuously in environments ranging from -40℃ to 120℃. With a rated voltage of DC 1000/1500V, conforming to industry standards such as TUV, and a service life exceeding 25 years, they are widely used for power transmission between photovoltaic modules and inverters, ensuring stable power supply in harsh outdoor environments.

PARAMETER

Application scenarios	Dedicated DC side for photovoltaic power generation systems
Conductor specifications	Tin-plated bare copper wire
Insulating material	Cross-linked polyethylene (XLPE) / Low smoke halogen-free TPE
Insulation color	Red, Black
Sheath structure	Single-layer insulating sheath (XLPE, flame-retardant and weather-resistant)
Finished product outer diameter	4mm²: 5.2±0.2mm; 6mm²: 6.0±0.2mm (typical value)
Electrical performance	Rated voltage DC 1000/1500V, test voltage AC 6.5kV, conductor DC resistance at 20℃ ≤5.09Ω/km (4mm²)
Operating temperature	-40℃ ~ 120℃ (long-term), 250℃ (≤5s during short circuit)
Core Features	UV resistant, weather resistant, flame retardant, low smoke and halogen -free, anti-aging, and highly flexible.

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