

High Voltage Power Cable (66kV to 220kV)

State-of-the-art High Voltage (HV) Power Cables designed for national grid transmission. Ranging from 66kV to 220kV, featuring ultra-pure XLPE insulation, seamless radial water barriers, and Milliken segmental conductors for maximized efficiency.



Applications

Engineered for critical high-capacity underground links in national transmission grids, export lines for mega power generation plants (nuclear, thermal, renewables), and urban power ingress where overhead lines are restricted.

Description

Farwalk Cable's HV series represents the pinnacle of electrical transmission technology. Manufactured in our VCV tower to ensure absolute XLPE purity, these cables completely eliminate partial discharge and water treeing. Conforming to IEC 60840 and IEC 62067, they feature fully water-blocked conductors and corrugated aluminum sheaths (CAS) for ultimate mechanical and dielectric protection.

Specifications

- **Rated Voltages:** 38/66kV, 64/110kV, 76/132kV, 127/220kV
- **Standard Compliance:** IEC 60840, IEC 62067
- **Max Conductor Temp:** 90° C (Continuous); 250° C (Short Circuit)
- **Metallic Sheath:** Corrugated Aluminum Sheath (CAS) or Extruded Lead
- **Routine Testing:** 100% PD testing and AC voltage withstand test in shielded lab

Farwalk Cable — High Voltage Power Cable

Complete Technical Tables

IEC 60840 (64/110 kV)

Nominal Area (mm ²)	Nominal XLPE Thick. (mm)	Approx. Corrugated Al Thick. (mm)	Approx. OD (mm)	Approx. Weight (kg/km)	Capacitance (μF/km)
Single Core - Cu / XLPE / CAS / PE (110kV Corrugated Aluminum Sheath)					
240	16.0	1.6	72.5	6250	0.141
300	16.0	1.6	75.2	6950	0.151
400	16.0	1.7	78.5	8150	0.165
500	16.0	1.7	82.8	9350	0.180
630	16.0	1.8	86.5	10850	0.198
800 (Milliken)	16.0	1.9	92.2	12650	0.222
1000 (Milliken)	16.0	2.0	97.5	14850	0.246
1200 (Milliken)	16.0	2.1	102.8	17250	0.270
1600 (Milliken)	16.0	2.2	110.5	21550	0.305
2000 (Milliken)	16.0	2.3	118.2	25850	0.345
2500 (Milliken)	16.0	2.4	125.5	30550	0.380

IEC 62067 (127/220 kV)

Nominal Area (mm ²)	Nominal XLPE Thick. (mm)	Approx. Corrugated Al Thick. (mm)	Approx. OD (mm)	Approx. Weight (kg/km)	Capacitance (μF/km)
Single Core - Cu / XLPE / CAS / PE (220kV Corrugated Aluminum Sheath)					
400	24.0	2.0	98.5	10550	0.118
500	24.0	2.0	101.8	11650	0.126
630	24.0	2.1	106.5	13350	0.138
800 (Milliken)	24.0	2.2	111.2	15250	0.150
1000 (Milliken)	24.0	2.3	116.5	17550	0.165
1200 (Milliken)	24.0	2.4	121.8	20150	0.178
1600 (Milliken)	24.0	2.5	128.5	24250	0.198
2000 (Milliken)	24.0	2.6	136.2	28850	0.220
2500 (Milliken)	24.0	2.7	143.5	33850	0.245