

# Medium Voltage Power Cable (3.6/6 kV to 18/30 kV)

High-performance Medium Voltage (MV) Power Cables engineered for safe and efficient transmission in primary distribution networks. Featuring advanced XLPE insulation, metallic screening, and customized armouring (SWA/STA/AWA).



## Applications

Designed for utility grid distribution, substation step-down circuits, heavy industrial facility power feeds, and MV collection networks in renewable energy plants (solar and wind). Suitable for direct burial, underground ducts, and cable trenches.

## Description

Farwalk Cable's MV series provides ultimate reliability for medium voltage power transmission. Manufactured with triple-extruded XLPE insulation and semi-conductive screens to eliminate partial discharge. Conforming strictly to IEC 60502-2 and BS 6622/7835 standards, the cables feature copper tape or wire screens for earth fault management and heavy-duty armouring for mechanical defense.

## Specifications

- **Rated Voltage (U<sub>0</sub>/U):** 3.6/6 kV, 6/10 kV, 8.7/15 kV, 12/20 kV, 18/30 kV
- **Standard Compliance:** IEC 60502-2, BS 6622, BS 7835, GB/T 12706.2
- **Max Conductor Temp:** 90° C (Continuous Operation)
- **Short-Circuit Temp:** 250° C (Max. 5 seconds)
- **Min Bending Radius:** 15 x OD (Single Core); 12 x OD (Three Core)

# Farwalk Cable — Medium Voltage Power Cable

## Complete Technical Tables

### IEC 60502-2 (6/10 kV)

Nominal Area (mm <sup>2</sup> )	Insulation Thick. (mm)	Cu Tape Screen Thick. (mm)	AWA Wire Dia. (mm)	Approx. OD (mm)	Approx. Weight (kg/km)
<b>1 Core - Cu / XLPE / CTS / AWA / PVC (Aluminum Wire Armoured)</b>					
50	3.4	0.1	1.6	26.5	1350
70	3.4	0.1	1.6	28.2	1650
95	3.4	0.1	1.6	30.5	2050
120	3.4	0.1	1.6	32.2	2380
150	3.4	0.1	1.6	33.8	2750
185	3.4	0.1	2.0	36.5	3350
240	3.4	0.1	2.0	39.2	4050
300	3.4	0.1	2.0	41.5	4750
400	3.4	0.1	2.0	45.2	5750
500	3.4	0.1	2.5	49.5	7150
630	3.4	0.1	2.5	54.2	8850

### IEC 60502-2 (6/10 kV)

Nominal Area (mm <sup>2</sup> )	Insulation Thick. (mm)	Cu Tape Screen Thick. (mm)	SWA Wire Dia. (mm)	Approx. OD (mm)	Approx. Weight (kg/km)
<b>3 Core - Cu / XLPE / CTS / SWA / PVC (Steel Wire Armoured)</b>					
3 x 35	3.4	0.1	2.5	51.5	4550
3 x 50	3.4	0.1	2.5	54.2	5350
3 x 70	3.4	0.1	2.5	58.5	6450
3 x 95	3.4	0.1	2.5	62.8	7750
3 x 120	3.4	0.1	3.15	68.2	9550
3 x 150	3.4	0.1	3.15	71.5	11050
3 x 185	3.4	0.1	3.15	76.2	12950
3 x 240	3.4	0.1	3.15	82.5	15850
3 x 300	3.4	0.1	3.15	88.2	18550
3 x 400	3.4	0.1	3.15	96.5	22850