0.6/1 (1.2) kV Low Voltage Power Cable Series

High-performance 0.6/1 kV Low Voltage Power Cables engineered for reliable energy distribution in industrial, commercial, and utility applications. Available in Copper (Cu) or Aluminum (Al) conductors, with customized SWA/STA armouring.

Applications

Designed for main power supply in heavy machinery, substation distribution, underground power networks, and AC side connections for renewable energy plants (solar and wind). Suitable for direct burial, underground ducts, or indoor cable trays.

Description

Farwalk Cable's LV Power Cables provide the ultimate solution for 0.6/1kV networks. Designed with stringent adherence to IEC 60502-1, BS 5467, and GB/T 12706.1 standards, these cables are categorized into unarmoured designs for conduits and armoured designs (SWA/STA) for maximum mechanical protection. XLPE insulation ensures exceptional thermal stability and dielectric strength.

Specifications

- **Rated Voltage (Uo/U): 0.6/1 kV**
- **Standard Compliance: IEC 60502-1, BS 5467, GB/T 12706.1**
- **Max Conductor Temp: 90° C (XLPE) / 70° C (PVC)**
- **Short-Circuit Temp: 250° C (XLPE, max 5s) / 160° C (PVC, max 5s)**
- **Min Bending Radius: 15 x OD (Unarmoured multicore); 12 x OD (Armoured multicore)**

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Farwalk Cable — Low Voltage Power Cable

Complete Technical Tables

IEC 60502-1 Unarmoured

Nominal Area (mm²)	Conductor Shape	Insulation Thick. (mm)	Approx. OD (mm)	Approx. Weight (kg/km)	Resistance @20° C (Ω/km)
1 Core (Cu / XLPE / PVC)					
16	RM	0.7	10.2	225	1.15
35	RM	0.9	12.8	440	0.524
95	RM	1.1	18.2	1060	0.193
240	RM	1.7	27.5	2580	0.0754
3 Core (Cu / XLPE / PVC)					
3 x 16	RM	0.7	18.8	720	1.15
3 x 50	SM	1.0	25.5	1750	0.387
3 x 120	SM	1.2	35.8	4100	0.153
3 x 240	SM	1.7	48.5	8250	0.0754

BS 5467 Armoured

Nom. Area (mm²)	Core Type	Insulation (mm)	SWA Wire Dia. (mm)	Approx. OD (mm)	Approx. Weight (kg/km)	Current Rating (A)
4 Core (Cu / XLPE / SWA / PVC)						
4 x 16	RM	0.7	1.25	21.5	1150	105
4 x 50	SM	1.0	1.6	31.8	2750	200
4 x 150	SM	1.4	2.5	48.5	7850	385
3+1 Core (Cu / XLPE / SWA / PVC)						
3x35 + 1x16	SM/RM	0.9/0.7	1.6	28.5	2150	165
3x95 + 1x50	SM/RM	1.1/1.0	2.0	41.2	5250	300
3x185 + 1x95	SM/RM	1.6/1.1	2.5	56.5	9400	435