



## Cathodic Protection Cables

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## What is CATHODIC PROTECTION?

Cathodic protection (CP) is a method of corrosion control that can be applied to buried and submerged metallic structures.

It is normally used in conjunction with coatings and can be considered as a secondary corrosion control technique. The primary corrosion control method on any given structure is normally a coating system which can be between 50 and 99 % efficient depending upon age, type, method of installation, etc. A properly designed and maintained cathodic protection system will take up the remainder resulting in a 100 % efficient corrosion protection system.

Corrosion costs money. It is estimated that somewhere between 3 and 5 % of the gross national product (GNP) of industrialised countries is attributed to corrosion damage. Corrosion of metals costs the USA economy almost \$300 billion per year and it is estimated that one third of this value could be saved with better selection of corrosion prevention techniques, including cathodic protection.

## Cathodic Protection Cables:

CP Cable is used as direct earth burial DC feeder cable in cathodic protection systems to protect against galvanic and electrolytic corrosion of metallic objects - such as storage tanks, pipelines, wells and ocean vessels - that are buried or submerged in water.

It has excellent abrasion, crush, chemical, oil, sunlight and moisture resistance. PVDF insulation offers additional resistance to corrosive gases and brackish water, and can be used for deep anode ground-bed installations.

## What structures can it protect?

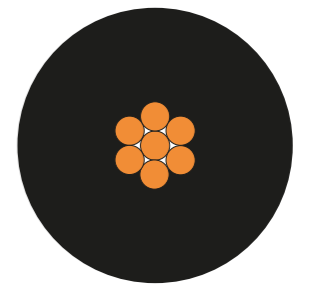
Cathodic protection can protect all types of buried and submerged metallic structures including:

- ✓ Cross country pipelines
- ✓ In plant piping
- ✓ Above ground storage tank bases
- ✓ Buried tanks and vessels
- ✓ Internal surfaces of tanks, vessels, condensers and pipes
- ✓ Well casings
- ✓ Piling tubular, sheet steel and foundation
- ✓ Marine structures including jetties, wharfs, harbours, piers, platforms
- ✓ Ships
- ✓ Reinforcing steel in concrete

- ▶ Bare Copper and Tinned Copper conductors are available upon request.
- ▶ Cables can be manufactured in any requested color.
- ▶ Cables with SWA (Steel Wire Armour) is available.

Please get in touch with us at [businessdevelopment@2mkablo.com](mailto:businessdevelopment@2mkablo.com)

## Cu/HMWPE



### Construction

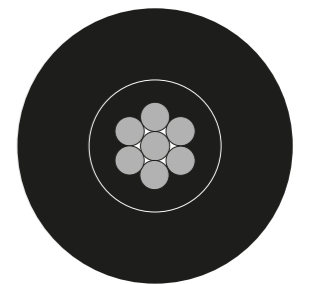
**Conductor** : Plain annealed stranded copper wires (IEC/EN 228 / VDE 0295 / HD 383 Class 2)  
**Insulation** : HMWPE acc. To ASTM D1248

### Technical and Electrical Properties (20 °C)

**Operating Voltage** : 0.6/1 kV  
**Max. Operating Temperature** : +90°C

NO.OF CORES CROSS SECTION (mm <sup>2</sup> )	CONDUCTOR (mm)	INSULATION THICKNESS (nom.mm)	CABLE DIAMETER (mm)(±5%)	CABLE WEIGHT (kg/km)(approx.)
1 x 1.5	7 x 0.52	2.3	6.2	43
1 x 2.5	7 x 0.66	2.3	6.6	54
1 x 4	7 x 0.83	2.3	7.1	70
1 x 6	7 x 1.02	2.3	7.7	92
1 x 10	7 x 1.37	2.8	9.3	141
1 x 16	7 x 1.80	2.8	10.3	200
1 x 25	7 x 2.19	2.8	11.6	293
1 x 35	7 x 2.55	2.8	12.6	381
1 x 50	7 x 3.00	3.2	14.5	514
1 x 70	13 x 2.70	3.2	16.2	713
1 x 95	17 x 2.70	3.2	18.4	973
1 x 120	18 x 3.00	3.2	19.4	1170
1 x 150	22 x 3.00	3.9	22.3	1501
1 x 185	32 x 2.70	3.9	24.4	1825
1 x 240	35 x 3.00	3.9	26.9	2343

## SnCu/PVDF/HMWPE



### Construction

**Conductor** : Tinned copper wires (IEC/EN 228 / VDE 0295 / HD 383 Class 2)  
**Insulation** : Special PVDF insulation  
**Outer Sheath** : HMWPE acc. To ASTM D1248

### Technical and Electrical Properties (20 °C)

**Operating Voltage** : 0.6/1 kV  
**Max. Operating Temperature** : -55°C.....+105°C

NO.OF CORES CROSS SECTION (mm <sup>2</sup> )	CONDUCTOR (mm)	INSULATION THICKNESS (nom.mm)	SHEATH THICKNESS (nom.mm)	CABLE DIAMETER (mm)(±5%)	CABLE WEIGHT (kg/km)(approx.)
1 x 1.5	7 x 0.52	0.50	1.65	5.9	42
1 x 2.5	7 x 0.66	0.50	1.65	6.3	54
1 x 4	7 x 0.83	0.50	1.65	6.8	70
1 x 6	7 x 1.03	0.50	1.65	7.4	94
1 x 10	7 x 1.34	0.50	1.65	8.3	141
1 x 16	7 x 1.69	0.50	1.65	9.4	203
1 x 25	7 x 2.10	0.50	1.65	10.6	290
1 x 35	19 x 1.51	0.50	1.65	11.8	388
1 x 50	19 x 1.75	0.50	1.65	13.1	504
1 x 70	19 x 2.12	0.50	1.65	14.9	711
1 x 95	19 x 2.50	0.50	1.65	16.8	962
1 x 120	37 x 2.03	0.50	1.65	18.5	1214
1 x 150	37 x 2.25	0.50	1.65	20.1	1473
1 x 185	37 x 2.50	0.50	1.65	21.8	1796
1 x 240	37 x 2.90	0.50	1.65	24.6	2382