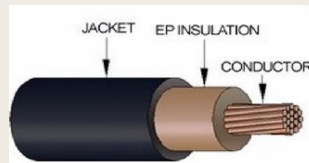## GENERAL

Cables forms vital part of the Cathodic Protection System, cables are used sacrificial and impressed current Cathodic Protection system, variety of cables are used such as PVC/PVC, PE/PVC, EPR/CSP, XLPE/PVC, XLPE/PVC/SWA/PVC, PVDF/HMWPE etc.

Cables used for cathodic protection systems must be highly corrosion resistant and capable of withstanding aggressive environments to which they are exposed. Cables used for Cathodic Protection system can be directly buried such as anode tail cable, header cable, monitoring cable, bonding cables etc, cables are also used for submerged application such as cable used for tank internals, offshore structure etc. In saline environment and for deep-well anode application, KYNAR/HMWPE or HALAR/HMWPE cables are suitable, these cables are highly chlorine resistant cables.

The following types of cables are used for Cathodic Protection system applications
1C 0.6/1Kv XLPE/PVC
1C 0.6/1Kv HWWPE
1C 0.6/1Kv XLPE/SWA/PVC
1C 0.6/1Kv XLPE/AWA/PVC
1C 0.6/1Kv Kynar/HMWPE

GENERAL SPECIFICATIONS (TYPICAL)

Type	XLPE Insulated Power & Auxiliary : Single Core
Specification	BS 5467, IEC 502
Conductor	Solid (Class-1) or Stranded (Class-2) Copper to BS 6360
Insulation	XLPE type GP8 to BS6899
Sheath	PVC type TM1 to BS7655
Rate Voltage	600 / 1000 V
Size	Various (from 4 mm sq to 120 mm sq)

CABLE DESCRIPTION (TYPICAL)

AWG	Number of Strands	Insulation Thickness	Nominal Overall Dia - Inches (std strands)	Approx. Shipping Weight (Lbs/Mft)	Nominal DC Resistance OHM/1000 ft @ 20°C
14	7	.110	.29	38	2.624
12	7	.110	.31	48	1.650
10	7	.110	.34	62	1.038
8	7	.110	.37	87	0.653
6	7	.110	.40	122	0.411
4	7	.110	.45	175	0.258
2	7	.110	.51	260	0.162
1	19	.125	.58	330	0.129
1/0	19	.125	.62	405	0.102
2/0	19	.125	.67	511	0.081
3/0	19	.125	.72	628	0.064
4/0	19	.125	.78	771	0.051
250	37	.140	.83	880	0.043