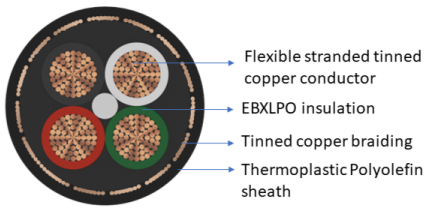
POLYCAB HYDRO, Type LSXLPO, Multicore POWER CABLE, IEEE 1580 0.6/1KV or 2KV



Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB HYDRO cables are designed to use in corrosive environments like Off-Shore & On-Shore oil rigs, Petrochemicals etc up to voltage 2 kV. These cables can be used in wet and dry area either indoor or Outdoor location in cable trays or in raceways supported by a messenger wire. These cables can be installed in direct burial as well as in hazardous location.

CHARACTERISTICS

Voltage Rating
0.6/1 kV or 2kV

Operation Temperature
From -40°C to 90° C

CONSTRUCTION

- Flexible stranded tinned copper conductor
- Insulated with Low Smoke Halogen Free XLPO (Type LSX), as per IEEE 1580
- Sheathed with Thermoplastic Polyolefin (Type TPO) Colour: Black
- Annealed Tinned Copper wire braiding (Optional) as per IEEE 1580
- Sheathed with Thermoplastic Polyolefin (Type TPO) (Optional) Colour: Black

Core Identification
As per IEEE 1580 (Table 23)

Bending Radius
Fixed installation 12 x Overall diameter
Occasional 8 x Overall diameter

OUTSTANDING FEATURES

- Heat resistant
- Flame retardant
- Low temperature resistant

STANDARD FOLLOWS

IEEE 1580
ASTM B33
IEEE 45
UL 1309

COMPLIANCE

Conductor resistance	IEEE 1580
Insulation resistance	IEEE 1580
Flame Reterdant	IEEE 1202
Halogen Content	IEC 60754-1
Cold bend/Impact	CSA 22.2
Fire resistant (Optional)	IEC 60331-1/2/21

Test Voltage

14 – 9 AWG	5.5 kV
8 – 2 AWG	7 kV
1 - 4/0 AWG	8 kV
250 – 525 kcmil	9.5 kV
525 kcmil above	11.5 kV

OUR ACCREDITATIONS

POLYCAB HYDRO, Type LSXLPO, Multicore POWER CABLE, IEEE 1580 0.6/1KV or 2KV

POLYCAB
IDEAS. CONNECTED.

Dimensional and Electrical Characteristics:

For two core conductor:

Conductor		UNARMOURED				ARMOURED AND SHEATHED				Ampacity
		Nominal OD		Weight		Nominal OD		Weight		
No. of Core	Size (AWG)	Inches	mm	Lbs/Mft	kg/km	Inches	mm	Lbs/Mft	kg/km	Ampere
2	14	0.410	10.4	92	137	0.598	15.2	248	369	27
2	12	0.445	11.3	116	173	0.633	16.1	285	425	36
2	10	0.506	12.8	160	238	0.694	17.6	349	520	46
2	8	0.633	16.1	249	370	0.861	21.8	518	771	60
2	6	0.752	19.1	352	524	0.980	24.9	667	993	79
2	4	0.890	22.6	525	781	1.118	28.4	891	1326	101
2	2	1.024	26.0	737	1096	1.253	31.8	1154	1717	137
2	1	1.142	29.0	921	1371	1.370	34.8	1383	2058	161
2	1/0	1.234	31.3	1113	1656	1.462	37.1	1609	2394	183
2	2/0	1.319	33.5	1327	1975	1.547	39.3	1835	2731	233
2	3/0	1.439	36.5	1608	2393	1.727	43.8	2296	3416	245
2	4/0	1.608	40.8	2016	3000	1.896	48.1	2778	4135	284
2	262	1.860	47.2	2561	3812	2.148	54.5	3436	5114	333

Three core conductor:

Conductor		UNARMOURED				ARMOURED AND SHEATHED				Ampacity
		Nominal OD		Weight		Nominal OD		Weight		
No. of Core	Size (AWG)	Inches	mm	Lbs/Mft	kg/km	Inches	mm	Lbs/Mft	kg/km	Ampere
3	16	0.414	10.5	85	126	0.602	15.3	244	363	15
3	14	0.436	11.1	105	156	0.624	15.8	271	403	24
3	12	0.473	12.0	135	201	0.661	16.8	314	467	29
3	10	0.569	14.4	208	310	0.757	19.2	419	623	38
3	8	0.674	17.1	295	439	0.902	22.9	580	863	48
3	6	0.803	20.4	420	625	1.031	26.2	754	1121	65
3	4	0.948	24.1	633	942	1.176	29.9	1022	1520	83
3	2	1.093	27.8	904	1345	1.322	33.5	1347	2005	111
3	1	1.220	31.0	1135	1689	1.449	36.8	1626	2420	131
3	1/0	1.320	33.5	1382	2057	1.548	39.3	1911	2844	150
3	2/0	1.412	35.8	1668	2483	1.640	41.6	2232	3321	173
3	3/0	1.541	39.1	2027	3017	1.829	46.4	2760	4108	201

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Conductor		UNARMOURED				ARMOURED AND SHEATHED				Ampacity
		Nominal OD		Weight		Nominal OD		Weight		
No. of Core	Size (AWG)	Inches	mm	Lbs/Mft	kg/km	Inches	mm	Lbs/Mft	kg/km	Ampere
3	4/0	1.783	45.3	2664	3965	2.072	52.6	3505	5217	232
3	262	1.991	50.5	3196	4756	2.279	57.8	4129	6145	273
3	313	2.111	53.6	3717	5531	2.400	60.9	4703	6999	298
3	373	2.256	57.3	4341	6460	2.544	64.6	5392	8024	332
3	444	2.425	61.5	5070	7545	2.713	68.9	6196	9220	382
3	535	2.690	68.3	6107	9088	3.039	77.1	7555	11243	407
3	646	2.955	75.0	7433	11061	3.304	83.9	9017	13419	474
3	777	3.100	78.7	8728	12989	3.449	87.5	10387	15458	516

Four core conductor:

Conductor		UNARMOURED				ARMOURED AND SHEATHED				Ampacity
		Nominal OD		Weight		Nominal OD		Weight		
No. of Core	Size (AWG)	Inches	mm	Lbs/Mft	kg/km	Inches	mm	Lbs/Mft	kg/km	Ampere
4	14	0.477	12.1	131	194	0.665	16.9	311	462	24
4	12	0.549	13.9	191	284	0.738	18.7	395	588	29
4	10	0.623	15.8	266	396	0.811	20.6	494	736	38
4	8	0.740	18.8	380	566	0.969	24.6	690	1027	48
4	6	0.925	23.5	586	873	1.153	29.3	966	1438	65
4	4	1.043	26.5	820	1220	1.271	32.3	1244	1851	83
4	2	1.206	30.6	1180	1756	1.434	36.4	1666	2479	111
4	1	1.348	34.2	1487	2213	1.577	40.0	2027	3016	131
4	1/0	1.459	37.0	1817	2704	1.747	44.4	2514	3741	150
4	2/0	1.562	39.6	2154	3205	1.850	47.0	2896	4310	173
4	3/0	1.767	44.8	2795	4159	2.055	52.2	3628	5400	201
4	4/0	1.972	50.0	3504	5214	2.260	57.4	4428	6590	232
4	262	2.204	55.9	4214	6271	2.492	63.3	5242	7801	273
4	313	2.339	59.4	4909	7306	2.627	66.7	5997	8924	298
4	373	2.501	63.5	5744	8548	2.850	72.3	7096	10560	332
4	444	2.690	68.3	6719	9999	3.039	77.1	8168	12155	382
4	535	3.048	77.4	8315	12374	3.397	86.2	9947	14802	407
4	646	3.277	83.2	9840	14644	3.626	92.0	11590	17248	474

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Five core conductor:

Conductor		UNARMOURED				ARMOURED AND SHEATHED			
		Nominal OD		Weight		Nominal OD		Weight	
No. of Core	Size (AWG)	Inches	mm	Lbs/Mft	kg/km	Inches	mm	Lbs/Mft	kg/km
5	14	0.552	14.0	181	270	0.740	18.8	386	575
5	12	0.599	15.2	233	347	0.787	20.0	454	675
5	10	0.681	17.3	328	487	0.909	23.1	615	916
5	8	0.812	20.6	471	702	1.040	26.4	809	1203
5	6	1.014	25.7	726	1080	1.242	31.5	1139	1695
5	4	1.145	29.1	1019	1517	1.373	34.9	1482	2206
5	2	1.327	33.7	1473	2193	1.555	39.5	2005	2983
5	1	1.486	37.7	1862	2772	1.774	45.0	2571	3826
5	1/0	1.609	40.9	2279	3391	1.898	48.2	3042	4528
5	2/0	1.784	45.3	2822	4200	2.073	52.6	3663	5452
5	3/0	1.946	49.4	3496	5202	2.234	56.7	4409	6561
5	4/0	2.174	55.2	4392	6536	2.463	62.5	5407	8046

Above values are approximate and subject to standard manufacturing tolerance
*Ampacity based on ambient temperature 45°C as per IEEE 45