



**ROUND SUBMERSIBLE FLEXIBLE MULTI-CONDUCTOR
 POWER CABLE
 TYPE P UNARMORED**



INSULATION: **XLPO**
 OUTER JACKET: **XLCP**
 SIZES: **16 AWG - 777 MCM,**
3-4 CONDUCTORS
 600/1000 VOLTS, 125°C



1.0 APPLICATIONS:

1.1 Extra flexible unarmored multi-conductor power cable. Applicable for offshore oil and gas drilling platforms, MODUs, ships and FPSOs, land-based oil and gas drilling rigs. Suitable for use in Class 1 Division 1 and Zone 1 environments. Mud and Oil resistant.

2.0 FEATURES:

- Meets NEK 606 mud oil resistance requirements including ester-based muds
- Meets UL 2225 crush and impact requirements of Type MC-HL cables
- Flexible stranding to facilitate ease of cable installation and termination
- Temperature rated @ 125°C for long life, higher ampacities and protection from thermal overloads
- Meets cold bend test at -55°C
- Meets cold impact test at -40°C

3.0 CONSTRUCTION:

- 3.1 Conductor:**
 8 AWG thru 777 KCMIL soft annealed flexible stranded tinned coated copper.
- 3.2 Insulation:**
 Irradiated Cross-Linked Polyolefin (XLPO)
- 3.3 Cable Code:**
 Color coding of power conductors per IEEE 1580 Table 22.

3.4 Cable Core:

Core binder tape when required. Cabled with fillers when required.

3.6 Options:

Other color codes available upon request.

4.0 COMPLIANCES: (Industry)

- API-RP14F
- CSA C22.2 No. 245 Type x110
- IEE 1580 Type P
- IEC 60092-3
- NEK 606 for mud oil resistance
- UL 1309 Type X110
- UL Listed 110°C Marine Shipboard Cable

4.1 Flame Test:

- IEEE 383
- IEEE 1202
- IEC 60332-3-22 Cat. A (supersedes IEC 60332-3A)
- CSA C22.2 No. 0.3 FT4

4.2 Approvals:

- ABS
- DNV
- CSA
- Lloyds Register
- (UL)
- ETL
- IEC

5.0 Three Conductor

Conductor Size	Nominal O.D.	Cable Weight	DC Resistance at 25°C	AC Resistance 110°C, 60 Hz	Inductive Reactance	Voltage Drop 110°C	Opt. Un-insulated Grounding Cond. Size	Ampacity 110°C	Ampacity 100°C	Ampacity 95°C
AWG)	Inches	LB/MFT*	Ohms/1000 ft.	Ohms/1000 ft.	Ohms/1000 ft.	Volts/AMP/1000 ft.	AWG			
16	0.369	65	4.610	6.121	0.039	8.511	-	17	16	16
14	0.401	102	2.907	3.859	0.036	5.379	-	27	25	22
12	0.445	133	1.826	2.424	0.034	3.390	-	33	31	27
10	0.488	189	1.153	1.530	0.032	2.151	-	44	41	36
8	0.637	274	0.708	0.940	0.034	1.336	-	56	52	48
6	0.723	390	0.445	0.590	0.032	0.850	8	75	70	64
4	0.942	678	0.300	0.399	0.029	0.582	8	99	92	85
2	1.084	987	0.184	0.244	0.028	0.366	6	131	122	113
1	1.206	1234	0.147	0.195	0.028	0.299	6	153	143	131
1/0	1.326	1448	0.117	0.156	0.028	0.245	6	176	164	152
2/0	1.422	1945	0.093	0.125	0.027	0.200	6	201	188	175
3/0	1.528	2379	0.074	0.100	0.027	0.166	4	234	218	202
4/0	1.765	2864	0.058	0.080	0.026	0.138	4	270	252	235
262	1.980	3452	0.048	0.067	0.026	0.119	3	315	294	267
313	2.131	4023	0.040	0.056	0.026	0.105	3	344	321	299
373	2.231	4772	0.034	0.047	0.025	0.092	3	387	361	334
444	2.394	5670	0.028	0.041	0.025	0.083	2	440	411	372
535	2.637	6784	0.024	0.035	0.026	0.075	2	498	443	418
646	2.958	7961	0.020	0.030	0.026	0.068	1	553	516	470
777	3.168	9573	0.016	0.026	0.026	0.068	1	602	562	529

Cable diameters shown are nominal are subject to a $\pm 5\%$ manufacturing tolerance.