



ROUND SUBMERSIBLE MULTI-CONDUCTOR POWER CABLE TYPE P ARMORED



INSULATION: **XLPO**

OUTER JACKET: **XLCP**; Armor: **Type P**

SIZES: **16 AWG - 777 MCM,**

3-4 CONDUCTORS

600/1000 VOLTS, 125°C



1.0 APPLICATIONS:

- 1.1** Extra flexible armored and sheathed 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.

3.5

Sheath:

Mud Oil-Resistant, black irradiated Cross-Linked Chlorosulfonated Polyethylene.

3.6

Armor:

Basket weave wire armor per IEEE 1580 and UL 1309/CSA 245. Bronze standard. Tinned copper available by request.

3.7

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

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. Uninsulated 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	0.519	181	4.610	6.121	0.039	8.511	-	17	16	16
14	0.583	228	2.907	3.859	0.036	5.379	-	27	25	22
12	0.626	276	1.826	2.424	0.034	3.390	-	33	31	27
10	0.669	352	1.153	1.530	0.032	2.151	-	44	41	36
8	0.818	477	0.708	0.940	0.034	1.336	-	56	52	48
6	0.946	650	0.445	0.590	0.032	0.850	8	75	70	64
4	1.165	1004	0.300	0.399	0.029	0.582	8	99	92	85
2	1.307	1374	0.184	0.244	0.028	0.366	6	131	122	113
1	1.431	1675	0.147	0.195	0.028	0.299	6	153	143	131
1/0	1.550	2015	0.117	0.156	0.028	0.245	6	176	164	152
2/0	1.645	2424	0.093	0.125	0.027	0.200	6	201	188	175
3/0	1.814	3106	0.074	0.100	0.027	0.166	4	234	218	202
4/0	2.050	3652	0.058	0.080	0.026	0.138	4	270	252	235
262	2.266	4434	0.048	0.067	0.026	0.119	3	315	294	267
313	2.418	4919	0.040	0.056	0.026	0.105	3	344	321	299
373	2.517	5718	0.034	0.047	0.025	0.092	3	387	361	334
444	2.680	6864	0.028	0.041	0.025	0.083	2	440	411	372
535	2.986	8250	0.024	0.035	0.026	0.075	2	498	443	418
646	3.301	9258	0.020	0.030	0.026	0.068	1	553	516	470
777	3.511	10945	0.016	0.026	0.026	0.068	1	602	562	529
16	0.402	222	4.610	6.121	0.042	8.514	-	17	16	16
14	0.438	262	2.907	3.859	0.039	5.382	-	27	25	22
12	0.486	319	1.826	2.424	0.037	3.393	-	33	31	27
10	0.585	458	1.153	1.530	0.035	2.154	-	44	41	36
8	0.710	668	0.708	0.940	0.037	1.339	-	56	52	48
6	0.795	872	0.445	0.590	0.035	0.853	8	75	70	64
4	1.040	1272	0.300	0.399	0.032	0.585	8	99	92	85
2	1.191	1734	0.184	0.244	0.030	0.369	6	131	122	113
1	1.370	2222	0.147	0.195	0.031	0.302	6	153	143	131
1/0	1.470	2642	0.117	0.156	0.030	0.248	6	176	164	152
2/0	1.610	3441	0.093	0.125	0.030	0.203	6	201	188	175
3/0	1.786	3781	0.074	0.100	0.029	0.168	4	234	218	202
4/0	1.985	4957	0.058	0.080	0.029	0.140	4	270	252	235
262	2.203	5595	0.048	0.067	0.029	0.122	3	315	294	267
313	2.325	6358	0.040	0.056	0.028	0.107	3	344	321	299
373	2.475	8270	0.034	0.047	0.028	0.095	3	387	361	334
444	2.675	8886	0.028	0.041	0.028	0.086	2	440	411	372
535	3.025	10770	0.024	0.035	0.028	0.077	2	498	443	418
646	3.215	12895	0.020	0.030	0.029	0.071	1	553	516	470

We're Big in Big pump cable.