



Oil & Gas - Cable Solutions

Exploration & Production - Offshore/Onshore

Low Voltage & Control Cables

IEEE/IEC

BOSTRIG™ TYPE P POWER CABLE 2000 V

Single core unarmoured/armoured and sheathed Type P power cable 2000 V, 8/0 AWG to 1111 MCM. Mud Resistant design option (Type P-MR) available on demand.

APPLICATION

Bostrig™ Type P Marine and Offshore Cable is primarily designed for power, control, signal, and instrumentation applications for offshore, land drilling rigs, marine vessels, and offshore production facilities. Armored and sheathed cables are suitable for use in Class I Division 1 and Zone 1 hazardous locations offshore. Unarmored cables are suitable for use in Class I, Division 2 hazardous locations offshore.

STANDARDS & APPROVALS

- IEEE 1580 and IEEE 45** Marine Shipboard Cables
- UL 1309** Marine Shipboard Cable Type XP110
- CSA 22.2 No. 245** Marine Shipboard Cable Type XP110
- CSA 22.2 No. 230 as Type TC**
(#1/0 AWG and larger) (unarmoured)
- ASTM B 33** Conductor Materials
- CSA 22.2** Cold bend/cold impact (-40 °C / -35 °C)
- IEEE 1202 and IEC 60332-3-22** Flame propagation



Det Norske Veritas (DNV)



American Bureau of Shipping (ABS)
Transport Canada Approved AMS400-20-2
Transport Canada 8700-20-2



Lloyd's Register of Shipping (LRS)
United States Coast Guard-46CFR



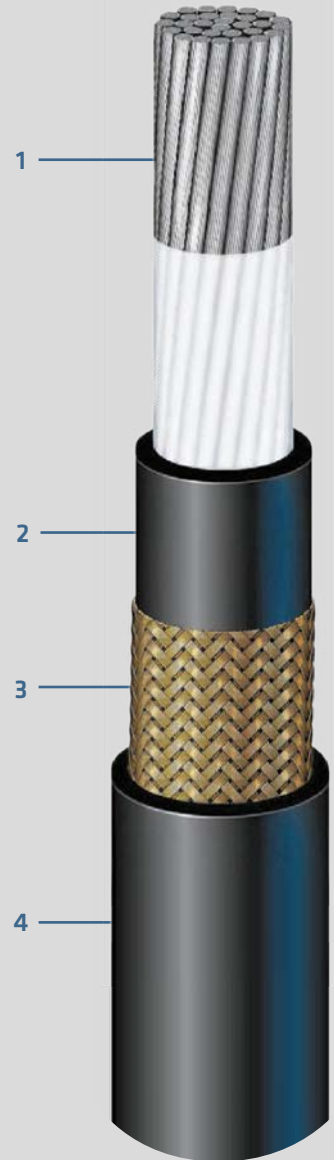
ETL listed



CSA listed

DESIGN & CONSTRUCTION

- 1 CONDUCTOR**
Soft annealed tinned copper; a polyester tape separator is used over the conductor
- 2 INSULATION**
Bostrig Type P chemically cross-linked polyolefin (XLPO)
- 3 ARMOUR (optional)**
Braided bronze
- 4 SHEATH (only armoured versions)**
Flame-retardant Arctic Neoprene applied over the armor (complying with Type N Neoprene as required in IEEE 1580)
Special ester-based mud resistant jacket is available on request



Bostrig LVGC P 2000 V - 09/2017

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PERFORMANCES / RATINGS

FIRE BEHAVIOUR



IEEE 1202
IEC 60332-3-22

CHEMICAL RESISTANCE



VERY GOOD
EXCELLENT (MUD RES)

IMPACTS



GOOD

SMOKE DENSITY, CORROSIVITY AND TOXICITY



LOW EMISSION (MUD RES)

MIN. PERMISSIBLE AMBIENT TEMPERATURE DURING LAYING



-40 °C
(-20 °C MUD RES)

MAX OPERATING TEMPERATURE



+100 °C
+125 °C (unarmoured only)

SHORT CIRCUIT TEMPERATURE



+250 °C

UV RESISTANCE



GOOD

QUALITY & TESTING

Prysmian has a built-in multi-step quality assurance program, covering the production process from cable design and raw material purchases to final inspection and testing documentation.

The ISO 9001 quality system of Prysmian Group (together with ISO 14001 and OHSAS 18001) has been assessed, approved and is currently audited by SGS.

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TECHNICAL DATA

Unarmoured

CONDUCTOR SIZE		SHEATH THICKNESS		CABLE DIAMETER (NOMINAL)		IMPEDANCE (PHASE-NEUTRAL)		INDUCTANCE		CAPACITANCE		AMPACITY † (MEASURED @ °C)				CABLE WEIGHT (APPROXIMATE)	
(AWG/MCM)	(mm ²)	(in)	(mm)	(in)	(mm)	(Ω/kft)	(Ω/km)	(mH/kft)	(mH/km)	(pF/ft)	(pF/M)	95°	100°	110°	125°	Lbs/Mft	kg/km
8	7,57	0,055	1,4	0,26	6,6	0,695	2,28	0,108	0,354	82	269	67	72	77	90	75	110
6	12,5	0,055	1,4	0,32	8,1	0,442	1,45	0,099	0,324	108	354	90	96	103	126	115	170
5	18,6	0,055	1,4	0,35	8,9	0,332	1,09	0,097	0,318	120	393	111	109	117	153	147	220
4	21,5	0,055	1,4	0,37	9,4	0,277	0,91	0,095	0,312	131	430	122	128	137	158	170	255
3	25,6	0,055	1,4	0,42	10,7	0,221	0,72	0,092	0,302	148	485	142	146	156	195	205	305
2	30,7	0,055	1,4	0,43	10,9	0,176	0,58	0,09	0,295	160	525	162	169	181	217	250	370
1	46	0,65	1,7	0,52	13,2	0,141	0,46	0,091	0,298	158	518	197	194	208	281	340	505
1/0	56,3	0,65	1,7	0,54	13,7	0,113	0,37	0,089	0,292	168	551	223	227	243	319	430	640
2/0	66,5	0,65	1,7	0,59	15	0,092	0,3	0,088	0,289	184	604	250	262	281	354	520	775
3/0	92,1	0,65	1,7	0,67	17	0,075	0,25	0,086	0,282	216	708	304	300	321	437	680	1010
4/0	112,6	0,105	2,7	0,82	20,8	0,07	0,2	0,11	0,4	146	479	344	351	376	495	875	1300
262	133,1	0,105	2,7	0,88	22,4	0,06	0,2	0,1	0,3	162	531	382	407	436	559	1020	1520
313	158,7	0,105	2,7	0,94	23,9	0,06	0,2	0,1	0,3	175	574	426	455	487	617	1215	1810
373	189,2	0,105	2,7	0,99	25,1	0,05	0,2	0,1	0,3	189	620	476	516	553	692	1410	2100
444	225,2	0,105	2,7	1,11	28,2	0,05	0,2	0,1	0,3	205	672	531	588	630	772	1705	2535
535	271,3	0,12	3	1,14	29	0,04	0,01	0,1	0,3	200	656	596	630	675	871	1975	2940
646	327,5	0,12	3	1,26	32	0,04	0,01	0,1	0,3	216	708	670	731	783	979	2410	3585
777	394,2	0,12	3	1,42	36,1	0,04	0,01	0,1	0,3	236	774	754	822	881	1101	2890	4300
1111	563	0,12	3	1,61	40,9	0,04	0,01	0,1	0,3	257	843	942	1025	1098	1374	3945	5870

† Ampacity based on 45 °C ambient temperature: 95 °C values based on ABS MODU Rules Table 6 - 100 °C values based on IEEE-45 - 110 °C values based on API 14F. Consult factory for conditions of use.

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TECHNICAL DATA

Armoured and sheathed

CONDUCTOR SIZE		SHEATH THICKNESS		CABLE DIAMETER (NOMINAL)		IMPEDANCE (PHASE-NEUTRAL)		INDUCTANCE		CAPACITANCE		AMPACITY † (MEASURED @ °C)			CABLE WEIGHT (APPROXIMATE)	
(AWG/MCM)	(mm ²)	(in)	(mm)	(in)	(mm)	(Ω/kft)	(Ω/km)	(mH/kft)	(mH/km)	(pF/ft)	(pF/M)	95°	100°	110°	Lbs/Mft	kg/km
8	7,57	0,06	1,5	0,46	11,7	0,696	2,28	0,138	0,453	82	269	67	72	77	155	230
6	12,5	0,06	1,5	0,52	13,2	0,442	1,45	0,124	0,407	108	354	90	96	103	210	315
5	18,6	0,06	1,5	0,55	14	0,333	1,09	0,12	0,394	120	393	111	109	117	250	370
4	21,5	0,06	1,5	0,58	14,7	0,279	0,91	0,12	0,394	131	430	122	128	137	300	445
3	25,6	0,06	1,5	0,62	15,7	0,222	0,73	0,115	0,377	148	485	142	146	156	345	515
2	30,7	0,06	1,5	0,62	15,7	0,178	0,58	0,112	0,367	160	525	162	169	181	395	590
1	46	0,06	1,5	0,72	18,3	0,143	0,47	0,11	0,361	158	518	197	194	208	510	760
1/0	56,3	0,06	1,5	0,75	19,1	0,115	0,38	0,108	0,354	168	551	223	227	243	580	865
2/0	66,5	0,06	1,5	0,79	20,1	0,095	0,31	0,105	0,344	184	604	250	262	281	690	1025
3/0	92,1	0,08	2	0,94	23,9	0,079	0,26	0,105*	0,344	216	708	304	300	321	935	1390
4/0	112,6	0,08	2,00	1,04	26,40	0,07	0,20	0,11	0,40	146	479	344	351	376	1190	1770
262	133,1	0,08	2,00	1,10	27,90	0,06	0,20	0,10	0,30	162	531	382	407	436	1360	2025
313	158,7	0,08	2,00	1,17	29,70	0,06	0,20	0,10	0,30	175	574	426	455	487	1595	2375
373	189,2	0,08	2,00	1,23	31,20	0,05	0,20	0,10	0,30	189	620	476	516	553	1820	2710
444	225,2	0,08	2,00	1,30	33,00	0,05	0,20	0,10	0,30	205	672	531	588	630	2125	3160
535	271,3	0,08	2,00	1,43	36,30	0,04	0,01	0,10	0,30	200	656	596	630	675	2530	3765
646	327,5	0,08	2,00	1,51	38,40	0,04	0,01	0,10	0,30	216	708	670	731	783	2975	4425
777	394,2	0,08	2,00	1,64	41,70	0,04	0,01	0,10	0,30	236	774	754	822	881	3475	5170
1111	563	0,11	2,80	1,89	48,00	0,04	0,01	0,10	0,30	257	843	942	1025	1098	4730	7040

† Ampacity based on 45 °C ambient temperature: 95 °C values based on ABS MODU Rules Table 6 - 100 °C values based on IEEE-45 - 110 °C values based on API 14F. Consult factory for conditions of use.

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