



## BOSTRIG™ TYPE P POWER CABLE 600V OR 0.6/1kV & 2000V

Single conductor / **unarmored**

TYPE P POWER CABLE **600V or 0.6/1kV & 2000V, 18 AWG to 1111 MCM**



### Applications

Bostrig™ Type P Marine and Offshore Cable is primarily designed for power, control, signal, and instrumentation applications for offshore and land drilling rigs, marine vessels, and offshore production facilities.

Bostrig™ cables have excellent resistance to oil, abrasion, moisture, vibration, sunlight, and ester based mud (Type P- MR). They are suitable for use in Class 1, Division 1 offshore applications (armored & sheathed).

The standard insulation has a continuous operating temperature of 125°C, allowing for higher ampacity levels. These cables also meet cold bend requirements of -40°C and cold impact of -35°C (CSA 22.2 NO. 0.3).

This product may be manufactured in an unarmored or armored and sheathed version.

### Features/Ratings

- Superior resistance to oil, abrasion, moisture, sunlight, mud, crush and impact
- High strand count conductors provide superior flexibility
- Higher allowable conductor operating temperature results in increased ampacity
- Cold bend/ cold impact of -40°/ -35°C in accordance with CSA 22.2 No. 0.3
- Flame retardant in accordance with IEEE 1202 and IEC 60332-3-22 Category A
- Unarmored cables suitable for Class 1, Division 2 and Zone 2 hazardous locations offshore

### Approvals

IEEE 1580 and IEEE 45- Marine Shipboard Cable  
UL 1309- Marine Shipboard Cable Type X110  
CSA 22.2 No. 245- Marine Shipboard Cable Type X110  
CSA 22.2 No. 230 as Type TC (#4/0 AWG and larger)  
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

### Construction

**CONDUCTOR:** Soft annealed stranded tinned copper per ASTM B 33. A polyester tape separator is used over the conductor.

**INSULATION:** Bostrig Type P chemically cross-linked polyolefin (XLPO), meeting IEEE 1580. Thickness as shown in tables on opposite page.



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## 600V or 600/1000V

Type Designation	Draka Number	Conductor Size		Sheath Thickness		Cable Diameter (nominal)		Impedance (Phase-Neutral)		Inductance		Capacitance		Calculated Ampacity <sup>†</sup> (measured @ °C)				Cable Weight (approximate)	
		AWG/MCM	mm <sup>2</sup>	in	mm	in	mm	Ω/kft	Ω/km	mH/kft	mH/km	pF/ft	pF/m	95	100	110	125*	Lbs/Mft	Kg/Km
SP-18	026000	18	0.96	0.030	0.76	0.110	2.8	6.4	21.0	0.18	0.6	58	190	16	16	17	24	10	15
SP-16	026001	16	1.23	0.030	0.76	0.120	3.0	4.5	14.8	0.18	0.6	65	213	20	23	25	35	15	20
SP-14	026002	14	1.94	0.030	0.76	0.140	3.6	2.9	9.5	0.16	0.5	77	253	29	37	39	56	20	30
SP-12	026003	12	3.08	0.030	0.76	0.150	3.8	1.9	6.2	0.15	0.5	90	295	38	45	49	67	25	35
SP-10	026004	10	5.58	0.030	0.76	0.180	4.6	1.2	3.9	0.14	0.5	107	351	51	58	61	87	45	65
SP-8	026005	8	7.57	0.045	1.14	0.240	6.1	0.7	2.3	0.14	0.5	95	311	67	72	77	90	70	105
SP-6	026006	6	12.5	0.045	1.14	0.290	7.4	0.5	1.6	0.12	0.4	126	413	90	96	103	126	100	150
SP-5	026007	5	18.6	0.045	1.14	0.340	8.6	0.3	1.6	0.12	0.4	140	459	111	109	117	153	145	215
SP-4	026008	4	21.5	0.045	1.14	0.360	9.1	0.3	1.6	0.12	0.4	153	502	122	128	137	158	170	255
SP-3	026009	3	27.2	0.045	1.14	0.400	10.2	0.2	0.7	0.11	0.4	173	567	142	146	156	195	255	380
SP-2	026010	2	33.7	0.045	1.14	0.420	10.7	0.2	0.7	0.11	0.4	187	613	162	169	181	217	260	385
SP-1	026011	1	46.1	0.055	1.40	0.500	12.7	0.1	0.3	0.11	0.4	178	584	197	194	208	281	350	520
SP-1/0	026012	1/0	56.3	0.055	1.40	0.520	13.2	0.1	0.3	0.11	0.4	190	623	223	227	243	319	420	625
SP-2/0	026013	2/0	67.6	0.055	1.40	0.570	14.5	0.09	0.3	0.10	0.3	212	695	250	262	281	354	475	705
SP-3/0	026014	3/0	92.1	0.055	1.40	0.670	17.0	0.08	0.3	0.10	0.3	245	804	304	300	321	437	680	1,010

## 2000V

Type Designation	Draka Number	Conductor Size		Sheath Thickness		Cable Diameter (nominal)		Impedance (Phase-Neutral)		Inductance		Capacitance		Calculated Ampacity <sup>†</sup> (measured @ °C)				Cable Weight (approximate)	
		AWG/MCM	mm <sup>2</sup>	in	mm	in	mm	Ω/kft	Ω/km	mH/kft	mH/km	pF/ft	pF/m	95	100	110	125*	Lbs/Mft	Kg/Km
SP2KV-8	030477	8	7.57	0.055	1.4	0.260	6.6	0.695	2.28	0.108	0.354	82	269	67	72	77	90	75	110
SP2KV-6	030478	6	12.5	0.055	1.4	0.320	8.1	0.442	1.45	0.099	0.324	108	354	90	96	103	126	115	170
SP2KV-5	030479	5	18.6	0.055	1.4	0.350	8.9	0.332	1.09	0.097	0.318	120	393	111	109	117	153	147	220
SP2KV-4	030480	4	21.5	0.055	1.4	0.370	9.4	0.277	0.91	0.095	0.312	131	430	122	128	137	158	170	255
SP2KV-3	030481	3	25.6	0.055	1.4	0.420	10.7	0.221	0.72	0.092	0.302	148	485	142	146	156	195	205	305
SP2KV-2	030482	2	30.7	0.055	1.4	0.430	10.9	0.176	0.58	0.090	0.295	160	525	162	169	181	217	250	370
SP2KV-1	030483	1	46.0	0.065	1.7	0.520	13.2	0.141	0.46	0.091	0.298	158	518	197	194	208	281	340	505
SP2KV-1/0	029732	1/0	56.3	0.065	1.7	0.540	13.7	0.113	0.37	0.089	0.292	168	551	223	227	243	319	430	640
SP2KV-2/0	027055	2/0	66.5	0.065	1.7	0.590	15.0	0.092	0.30	0.088	0.289	184	604	250	262	281	354	520	775
SP2KV-3/0	030484	3/0	92.1	0.065	1.7	0.670	17.0	0.075	0.25	0.086	0.282	216	708	304	300	321	437	680	1,010
SP2KV(HD)-4/0	026015	4/0	112.6	0.105	2.7	0.820	20.8	0.07	0.2	0.11	0.4	146	479	344	351	376	495	875	1,300
SP2KV(HD)-262	026016	262	133.1	0.105	2.7	0.880	22.4	0.06	0.2	0.10	0.3	162	531	382	407	436	559	1,020	1,520
SP2KV(HD)-313	026017	313	158.7	0.105	2.7	0.940	23.9	0.06	0.2	0.10	0.3	175	574	426	455	487	617	1,215	1,810
SP2KV(HD)-373	026018	373	189.2	0.105	2.7	0.990	25.1	0.05	0.2	0.10	0.3	189	620	476	516	553	692	1,410	2,100
SP2KV(HD)-444	026019	444	225.2	0.105	2.7	1.110	28.2	0.05	0.2	0.10	0.3	205	672	531	588	630	772	1,705	2,535
SP2KV(HD)-535	026020	535	271.3	0.120	3.0	1.140	29.0	0.04	0.1	0.10	0.3	200	656	596	630	675	871	1,975	2,940
SP2KV(HD)-646	026021	646	327.5	0.120	3.0	1.260	32.0	0.04	0.1	0.10	0.3	216	708	670	731	783	979	2,410	3,585
SP2KV(HD)-777	026022	777	394.2	0.120	3.0	1.420	36.1	0.04	0.1	0.10	0.3	236	774	754	822	881	1,101	2,890	4,300
SP2KV(HD)-1111	026023	1111	563.0	0.120	3.0	1.610	40.9	0.04	0.1	0.10	0.3	257	843	942	1,025	1,098	1,374	3,945	5,870

This information is provided for reference only. Please consult the factory or your representative to confirm all engineering information.

This information is not intended to replace the information in the appropriate and applicable standard or code.

†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.

\*125°C ampacities based on 45°C ambient in free air. Consult factory for conditions of use.

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## 600V or 600/1000V

				GLAND SELECTION			GLAND REFERENCE CHART	
Type Designation	Draka Number	Cable Diameter (nominal)		Explosion Proof: Unarmored	Non-Explosion Proof: Unarmored	Non-Explosion Proof: Unarmored	Explosion Proof: (Unarmored) Hub Size Reference	Non-Explosion Proof: (Unarmored) - NPT Thread Size Reference
		in	mm					
SP-18	026000	0.110	2.8	***	***	***	01 = 1/2"	03 = 1/2" - 14 NPT
SP-16	026001	0.120	3.0	***	***	***	02 = 1/2"	04 = 1/2" - 14 NPT
SP-14	026002	0.140	3.6	424UB-01	494AB-51/ 71	494NE-03	03 = 3/4"	05 = 1/2" - 14 NPT
SP-12	026003	0.150	3.8	424UB-01	494AB-51/ 71	494NE-03	04 = 1"	08 = 3/4" - 14 NPT
SP-10	026004	0.180	4.6	424UB-01	494AB-51/ 71	494NE-03	05 = 1-1/4"	10 = 3/4" - 14 NPT
SP-8	026005	0.240	6.1	424UB-01	494AB-51/ 71	494NE-03	15 = 1-1/2"	14 = 1" - 11-1/2 NPT
SP-6	026006	0.290	7.4	424UB-01	494AB-51/ 71	494NE-03	06 = 2"	15 = 1" - 11-1/2 NPT
SP-5	026007	0.340	8.6	424UB-01	494AB-52/ 53	494NE-04/ 05/ 08	07 = 2-1/2"	20 = 1-1/4" - 11-1/2 NPT
SP-4	026008	0.360	9.1	424UB-01/ 02	494AB-52/ 53	494NE-04/ 05/ 08	08 = 3"	21 = 1-1/4" - 11-1/2 NPT
SP-3	026009	0.400	10.2	424UB-02	494AB-52/ 53	494NE-04/ 05/ 08	09 = 3-1/2"	27 = 1-1/2" - 11-1/2 NPT
SP-2	026010	0.420	10.7	424UB-02	494AB-52/ 53	494NE-04/ 05/ 08		32 = 2" - 11-1/2 NPT
SP-1	026011	0.500	12.7	424UB-02	494AB-53/ 55	494NE-05/ 08/ 10/ 14		38 = 2-1/2" - 8 NPT
SP-1/0	026012	0.520	13.2	424UB-02/ 03	494AB-53/ 55	494NE-05/ 08/ 10/ 14		44 = 3" - 8 NPT
SP-2/0	026013	0.570	14.5	424UB-02/ 03	494AB-53/ 55	494NE-05/ 08/ 10/ 14		45 = 3" - 8 NPT
SP-3/0	026014	0.670	17.0	424UB-03/ 04	494AB-55	494NE-10/ 14		

## 2000V

				GLAND SELECTION			GLAND REFERENCE CHART	
Type Designation	Draka Number	Cable Diameter (nominal)		Explosion Proof: Unarmored	Non-Explosion Proof: Unarmored	Non-Explosion Proof: Unarmored	Explosion Proof: (Unarmored) Hub Size Reference	Non-Explosion Proof: (Unarmored) - NPT Thread Size Reference
		in	mm					
SP2KV-8	030477	0.260	6.6	424UB-01	494AB-51/ 71	494NE-03	01 = 1/2"	03 = 1/2" - 14 NPT
SP2KV-6	030478	0.320	8.1	424UB-01	494AB-51/ 71/ 52/ 53	494NE-03/ 04/ 05/ 08	02 = 1/2"	04 = 1/2" - 14 NPT
SP2KV-5	030479	0.350	8.9	424UB-01/ 02	494AB-52/ 53	494NE-04/ 05/ 08	03 = 3/4"	05 = 1/2" - 14 NPT
SP2KV-4	030480	0.370	9.4	424UB-02	494AB-52/ 53	494NE-04/ 05/ 08	04 = 1"	08 = 3/4" - 14 NPT
SP2KV-3	030481	0.420	10.7	424UB-02	494AB-52/ 53	494NE-04/ 05/ 08	05 = 1-1/4"	10 = 3/4" - 14 NPT
SP2KV-2	030482	0.430	10.9	424UB-02	494AB-52/ 53	494NE-04/ 05/ 08	15 = 1-1/2"	14 = 1" - 11-1/2 NPT
SP2KV-1	030483	0.520	13.2	424UB-02/ 03	494AB-53/ 55	494NE-05/ 08/ 10/ 14	06 = 2"	15 = 1" - 11-1/2 NPT
SP2KV-1/0	029732	0.540	13.7	424UB-02/ 03	494AB-53/ 55	494NE-05/ 08/ 10/ 14	07 = 2-1/2"	20 = 1-1/4" - 11-1/2 NPT
SP2KV-2/0	027055	0.590	15.0	424UB-02/ 03	494AB-53/ 55	494NE-05/ 08/ 10/ 14	08 = 3"	21 = 1-1/4" - 11-1/2 NPT
SP2KV-3/0	030484	0.670	17.0	424UB-03/ 04	494AB-55	494NE-10/ 14	09 = 3-1/2"	27 = 1-1/2" - 11-1/2 NPT
SP2KV(HD)-4/0	026015	0.820	20.8	424UB-04	494AB-55/ 56	494NE-10/ 14/ 15/ 20		32 = 2" - 11-1/2 NPT
SP2KV(HD)-262	026016	0.880	22.4	424UB-04	494AB-56	494NE-15/ 20		38 = 2-1/2" - 8 NPT
SP2KV(HD)-313	026017	0.940	23.9	424UB-04	494AB-56	494NE-15/ 20		44 = 3" - 8 NPT
SP2KV(HD)-373	026018	0.990	25.1	424UB-04/ 05/ 15	494AB-56/ 57	494NE-15/ 20/ 21/ 27		45 = 3" - 8 NPT
SP2KV(HD)-444	026019	1.110	28.2	424UB-05/ 15	494AB-57	494NE-21/ 27		
SP2KV(HD)-535	026020	1.140	29.0	424UB-05/ 15	494AB-57	494NE-21/ 27		
SP2KV(HD)-646	026021	1.260	32.0	424UB-06	494AB-57/ 59	494NE-21/ 27/ 32		
SP2KV(HD)-777	026022	1.420	36.1	424UB-06	494AB-59	494NE-32		
SP2KV(HD)-1111	026023	1.610	40.9	424UB-06/ 07	494AB-61	494NE-38		