



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

Single conductor / **armored and sheathed**

TYPE P POWER CABLE **600V or 0.6/1kV & 2000V, 8 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, 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
- Meets IEEE standards for 600V and performance requirements of IEC standards for 0.6/1 kV
- Armored and sheathed cables suitable for use in Class 1 Division 1 and Zone 1 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  
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.

**ARMOR:** Braided bronze in accordance with IEEE 1580.

**SHEATH:** Flame-Retardant Thermosetting CPE (Chlorinated Polyethylene) applied over the armor in accordance with the requirements of IEEE-1580-2010. Thickness as shown in tables on opposite page. Arctic Neoprene (Type N) also available as an option.



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## 600V

Type Designation	Draka Number	Conductor Size		Sheath Thickness		Cable Diameter (nominal)		Impedance (Phase-Neutral)		Inductance		Capacitance		Calculated Ampacity* (measured @ °C)				Cable Weight (approximate)	
		AWG/MCM	mm²	in	mm	in	mm	Ω/kft	Ω/km	mH/kft	mH/km	pF/ft	pF/m	95	100	110	125*	Lbs/Mft	Kg/Km
SPBS-8	T26024	8	7.57	0.060	1.5	0.420	10.7	0.7	2.3	0.14	0.5	95	311	67	72	77	90	160	240
SPBS-6	T26025	6	12.5	0.060	1.5	0.480	12.2	0.5	1.6	0.12	0.4	126	413	90	96	103	126	205	305
SPBS-5	T26026	5	18.6	0.060	1.5	0.530	13.5	0.3	1.6	0.12	0.4	140	459	111	109	117	153	260	385
SPBS-4	T26027	4	21.5	0.060	1.5	0.540	13.7	0.3	1.6	0.12	0.4	153	502	122	128	137	158	300	445
SPBS-3	T26028	3	27.2	0.060	1.5	0.560	14.2	0.2	0.7	0.11	0.4	173	567	142	146	156	195	335	500
SPBS-2	T26029	2	33.7	0.060	1.5	0.610	15.5	0.2	0.7	0.11	0.4	187	613	162	169	181	217	405	605
SPBS-1	T26030	1	46.1	0.060	1.5	0.680	17.3	0.1	0.3	0.11	0.4	178	584	197	194	208	281	520	775
SPBS-1/0	T26031	1/0	56.3	0.060	1.5	0.710	18.0	0.1	0.3	0.11	0.4	190	623	223	227	243	319	605	900
SPBS-2/0	T26032	2/0	67.6	0.060	1.5	0.750	19.1	0.09	0.3	0.10	0.3	212	695	250	262	281	354	665	990
SPBS-3/0	T26033	3/0	92.1	0.060	1.5	0.830	21.1	0.08	0.3	0.10	0.3	245	804	304	300	321	437	900	1,340

## 2000V

Type Designation	Draka Number	Conductor Size		Sheath Thickness		Cable Diameter (nominal)		Impedance (Phase-Neutral)		Inductance		Capacitance		Calculated Ampacity* (measured @ °C)				Cable Weight (approximate)	
		AWG/MCM	mm²	in	mm	in	mm	Ω/kft	Ω/km	mH/kft	mH/km	pF/ft	pF/m	95	100	110	125*	Lbs/Mft	Kg/Km
SPBS2KV-8	T36754	8	7.57	0.060	1.5	0.460	11.7	0.696	2.28	0.138	0.453	82	269	67	72	77	90	155	230
SPBS2KV-6	T36755	6	12.5	0.060	1.5	0.520	13.2	0.442	1.45	0.124	0.407	108	354	90	96	103	126	210	315
SPBS2KV-5	T36756	5	18.6	0.060	1.5	0.550	14.0	0.333	1.09	0.120	0.394	120	393	111	109	117	153	250	370
SPBS2KV-4	T36757	4	21.5	0.060	1.5	0.580	14.7	0.279	0.92	0.120	0.394	131	430	122	128	137	158	300	445
SPBS2KV-3	T36758	3	25.6	0.060	1.5	0.620	15.7	0.222	0.73	0.115	0.377	148	485	142	146	156	195	345	515
SPBS2KV-2	T36742	2	30.7	0.060	1.5	0.620	15.7	0.178	0.58	0.112	0.367	160	525	162	169	181	217	395	590
SPBS2KV-1	T36759	1	46.0	0.060	1.5	0.720	18.3	0.143	0.47	0.110	0.361	158	518	197	194	208	281	510	760
SPBS2KV-1/0	T36760	1/0	56.3	0.060	1.5	0.750	19.1	0.115	0.38	0.108	0.354	168	551	223	227	243	319	580	865
SPBS2KV-2/0	T36761	2/0	66.5	0.060	1.5	0.790	20.1	0.095	0.31	0.105	0.344	184	604	250	262	281	354	690	1,025
SPBS2KV-3/0	T27068	3/0	92.1	0.080	2.0	0.940	23.9	0.079	0.26	0.105	0.344	216	708	304	300	321	437	935	1,390
SPBS2KV(HD)-4/0	T26034	4/0	112.6	0.080	2.0	1.040	26.4	0.07	0.2	0.11	0.4	146	479	344	351	376	495	1,190	1,770
SPBS2KV(HD)-262	T26035	262	133.1	0.080	2.0	1.100	27.9	0.06	0.2	0.10	0.3	162	531	382	407	436	559	1,360	2,025
SPBS2KV(HD)-313	T26036	313	158.7	0.080	2.0	1.170	29.7	0.06	0.2	0.10	0.3	175	574	426	455	487	617	1,595	2,375
SPBS2KV(HD)-373	T26037	373	189.2	0.080	2.0	1.230	31.2	0.05	0.2	0.10	0.3	189	620	476	516	553	692	1,820	2,710
SPBS2KV(HD)-444	T26038	444	225.2	0.080	2.0	1.300	33.0	0.05	0.2	0.10	0.3	205	672	531	588	630	772	2,125	3,160
SPBS2KV(HD)-535	T26039	535	271.3	0.080	2.0	1.430	36.3	0.04	0.1	0.10	0.3	200	656	596	630	675	871	2,530	3,765
SPBS2KV(HD)-646	T26040	646	327.5	0.080	2.0	1.510	38.4	0.04	0.1	0.10	0.3	216	708	670	731	783	979	2,975	4,425
SPBS2KV(HD)-777	T26041	777	394.2	0.080	2.0	1.640	41.7	0.04	0.1	0.10	0.3	236	774	754	822	881	1,101	3,475	5,170
SPBS2KV(HD)-1111	T26042	1111	563.0	0.110	2.8	1.890	48.0	0.04	0.1	0.10	0.3	257	843	942	1,025	1,098	1,374	4,730	7,040

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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Group

## 600V

				GLAND SELECTION			GLAND REFERENCE CHART	
Type Designation	Draka Number	Cable Diameter (nominal)		Explosion Proof: Armored	Non-Explosion Proof: Armored	Non-Explosion Proof: Armored	Explosion Proof: (Armored) Hub Size Reference	Non-Explosion Proof: (Armored) - NPT Thread Size Reference
		in	mm					
SPBS-8	T26024	0.420	10.7	424AN-01	474SW-71	474NP-03	01 = 1/2"	03 = 1/2" - 14 NPT
SPBS-6	T26025	0.480	12.2	424AN-01/ 02/ 10	474SW-52	474NP-04/ 07	02 = 3/4"	04 = 1/2" - 14 NPT
SPBS-5	T26026	0.530	13.5	424AN-01/ 02/ 10	474SW-52	474NP-04/ 07	03 = 1"	07 = 3/4" - 14 NPT
SPBS-4	T26027	0.540	13.7	424AN-01/ 02/ 10	474SW-52	474NP-04/ 07	04 = 1-1/4"	05 = 1/2" - 14 NPT
SPBS-3	T26028	0.560	14.2	424AN-01/ 02/ 10	474SW-52	474NP-04/ 07	05 = 1-1/2"	08 = 3/4" - 14 NPT
SPBS-2	T26029	0.610	15.5	424AN-01/ 02/ 10	474SW-53	474NP-05/ 08	06 = 2"	10 = 3/4" - 14 NPT
SPBS-1	T26030	0.680	17.3	424AN-02/ 03/ 10/ 12	474SW-53	474NP-05/ 08	07 = 2-1/2"	14 = 1" - 11-1/2 NPT
SPBS-1/0	T26031	0.710	18.0	424AN-02/ 03/ 10/ 12	474SW-53	474NP-05/ 08	08 = 3"	15 = 1" - 11-1/2 NPT
SPBS-2/0	T26032	0.750	19.1	424AN-02/ 03/ 10/ 12	474SW-55	474NP-10/ 14	09 = 3-1/2"	20 = 1-1/4" - 11-1/2 NPT
SPBS-3/0	T26033	0.830	21.1	424AN-03/ 04/ 12/ 15	474SW-55	474NP-10/ 14	10 = 1/2"	21 = 1-1/4" - 11-1/2 NPT
							12 = 3/4"	27 = 1-1/2" - 11-1/2 NPT
							15 = 1"	28 = 1-1/2" - 11-1/2 NPT
								31 = 2" - 11-1/2 NPT
								32 = 2" - 11-1/2 NPT
								33 = 2" - 11-1/2 NPT
								38 = 2-1/2" - 8 NPT
								39 = 2-1/2" - 8 NPT
								45 = 3" - 8 NPT
								47 = 3" - 8 NPT

## 2000V

				GLAND SELECTION			GLAND REFERENCE CHART	
Type Designation	Draka Number	Cable Diameter (nominal)		Explosion Proof: Armored	Non-Explosion Proof: Armored	Non-Explosion Proof: Armored	Explosion Proof: (Armored) Hub Size Reference	Non-Explosion Proof: (Armored) - NPT Thread Size Reference
		in	mm					
SPBS2KV-8	T36754	0.460	11.7	424AN-01	474SW-52	474NP-04/ 07	01 = 1/2"	03 = 1/2" - 14 NPT
SPBS2KV-6	T36755	0.520	13.2	424AN-01/ 02/ 10	474SW-52	474NP-04/ 07	02 = 3/4"	04 = 1/2" - 14 NPT
SPBS2KV-5	T36756	0.550	14.0	424AN-01/ 02/ 10	474SW-53	474NP-05/ 08	03 = 1"	07 = 3/4" - 14 NPT
SPBS2KV-4	T36757	0.580	14.7	424AN-02/ 10	474SW-53	474NP-05/ 08	04 = 1-1/4"	05 = 1/2" - 14 NPT
SPBS2KV-3	T36758	0.620	15.7	424AN-02/ 10	474SW-53	474NP-05/ 08	05 = 1-1/2"	08 = 3/4" - 14 NPT
SPBS2KV-2	T36742	0.620	15.7	424AN-02/ 10	474SW-53	474NP-05/ 08	06 = 2"	10 = 3/4" - 14 NPT
SPBS2KV-1	T36759	0.720	18.3	424AN-02/ 10	474SW-55	474NP-10/ 14	07 = 2-1/2"	14 = 1" - 11-1/2 NPT
SPBS2KV-1/0	T36760	0.750	19.1	424AN-02/ 03/ 10/ 12	474SW-55	474NP-10/ 14	08 = 3"	15 = 1" - 11-1/2 NPT
SPBS2KV-2/0	T36761	0.790	20.1	424AN-04/ 15	474SW-55	474NP-10/ 14	09 = 3-1/2"	20 = 1-1/4" - 11-1/2 NPT
SPBS2KV-3/0	T27068	0.940	23.9	424AN-04/ 15	474SW-55	474NP-10/ 14	10 = 1/2"	21 = 1-1/4" - 11-1/2 NPT
SPBS2KV(HD)-4/0	T26034	1.040	26.4	424AN-03/ 04/ 12/ 15	474SW-56	474NP-15/ 20	12 = 3/4"	27 = 1-1/2" - 11-1/2 NPT
SPBS2KV(HD)-262	T26035	1.100	27.9	424AN-04/ 15	474SW-56	474NP-15/ 20	15 = 1"	28 = 1-1/2" - 11-1/2 NPT
SPBS2KV(HD)-313	T26036	1.170	29.7	424AN-04/ 15	474SW-56	474NP-15/ 20		31 = 2" - 11-1/2 NPT
SPBS2KV(HD)-373	T26037	1.230	31.2	424AN-05	474SW-56	474NP-15/ 20		32 = 2" - 11-1/2 NPT
SPBS2KV(HD)-444	T26038	1.300	33.0	424AN-05	474SW-57	474NP-21/ 27		33 = 2" - 11-1/2 NPT
SPBS2KV(HD)-535	T26039	1.430	36.3	424AN-05/ 06	474SW-57	474NP-21/ 27		38 = 2-1/2" - 8 NPT
SPBS2KV(HD)-646	T26040	1.510	38.4	424AN-06	474SW-58	474NP-28/ 31		39 = 2-1/2" - 8 NPT
SPBS2KV(HD)-777	T26041	1.640	41.7	424AN-06	474SW-58	474NP-28/ 31		45 = 3" - 8 NPT
SPBS2KV(HD)-1111	T26042	1.890	48.0	424AN-06/ 07	474SW-59	474NP-32		47 = 3" - 8 NPT