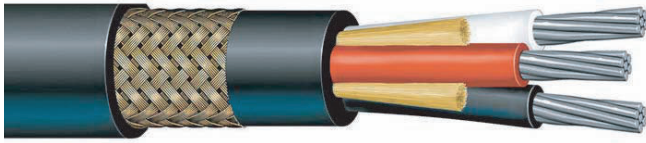




BOSTRIG™ TYPE P POWER CABLE 600V OR 0.6/1kV

Three conductor / **armored and sheathed**

TYPE P POWER CABLE **600V** or **0.6/1kV**, 8 AWG to 777 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

CONDUCTORS: 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.

JACKET: Flame-Retardant Thermosetting CPE (Chlorinated Polyethylene) 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.

ARMOR: Braided bronze in accordance with IEEE 1580.

SEATH: 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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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
TPNBS-8	T26126	8	7.57	0.060	1.5	0.810	20.6	0.70	2.3	0.12	0.4	95	312	47	52	56	63	510	760
TPNBS-6	T26127	6	12.5	0.080	2.0	0.990	25.1	0.46	1.5	0.11	0.4	126	413	63	70	75	91	735	1,095
TPNBS-5	T26128	5	18.6	0.080	2.0	1.120	28.4	0.33	1.1	0.11	0.4	140	459	78	82	88	120	900	1,340
TPNBS-4	T26129	4	21.5	0.080	2.0	1.150	29.2	0.29	1.0	0.10	0.3	153	502	86	92	99	126	1,045	1,555
TPNBS-3	T26130	3	25.6	0.080	2.0	1.230	31.2	0.23	0.8	0.10	0.3	173	567	99	108	116	148	1,225	1,825
TPNBS-2	T26131	2	30.7	0.080	2.0	1.300	33.0	0.18	0.6	0.10	0.3	187	613	111	122	131	161	1,385	2,060
TPNBS-1	T26132	1	46.1	0.080	2.0	1.450	36.8	0.14	0.5	0.09	0.3	178	584	137	143	153	202	1,780	2,650
TPNBS-1/0	T26133	1/0	56.3	0.080	2.0	1.540	39.1	0.12	0.4	0.09	0.3	190	623	156	164	176	229	2,115	3,145
TPNBS-2/0	T26134	2/0	66.5	0.080	2.0	1.610	40.9	0.09	0.3	0.09	0.3	212	695	175	188	201	254	2,395	3,565
TPNBS-3/0	T26135	3/0	92.1	0.110	2.8	1.830	46.5	0.08	0.3	0.09	0.3	245	804	213	218	234	313	3,145	4,680
TPNBS-4/0	T26136	4/0	112.6	0.110	2.8	2.000	50.8	0.07	0.2	0.09	0.3	259	850	241	252	270	354	3,870	5,760
TPNBS-262	T26137	262	133.0	0.110	2.8	2.160	54.9	0.06	0.2	0.09	0.3	247	810	267	294	315	395	4,440	6,605
TPNBS-313	T26138	313	158.6	0.110	2.8	2.340	59.4	0.05	0.2	0.09	0.3	270	886	298	321	344	442	5,185	7,715
TPNBS-373	T26139	373	189.3	0.110	2.8	2.460	62.5	0.04	0.1	0.09	0.3	292	958	333	361	387	492	5,860	8,720
TPNBS-444	T26140	444	225.1	0.110	2.8	2.620	66.5	0.04	0.1	0.09	0.3	318	1,043	371	411	440	549	6,815	10,140
TPNBS-535	T26141	535	271.2	0.140	3.6	2.880	73.2	0.04	0.1	0.09	0.3	291	954	417	443	475	608	8,070	12,010
TPNBS-646	T26142	646	327.5	0.140	3.6	3.200	81.3	0.04	0.1	0.09	0.3	314	1,030	469	516	553	678	9,765	14,530
TPNBS-777	T26143	777	393.8	0.140	3.6	3.450	87.6	0.03	0.1	0.09	0.3	345	1,132	528	562	602	750	11,415	16,985

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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				GLAND SELECTION			GLAND REFERENCE CHART	
Type Designation	Draka Number	Cable Diameter (nominal)		Explosion Proof: Armored	Non-Explosion Proof: Armored (metric)	Non-Explosion Proof: Armored (NPT)	Explosion Proof: (Armored) Hub Size Reference	Non-Explosion Proof: (Armored) - NPT Thread Size Reference
		in	mm					
TPNBS-8	T26126	0.810	20.6	424AN-03/ 12	474SW-55	474NP-10/ 14	01 = 1/2"	03 = 1/2" - 14 NPT
TPNBS-6	T26127	0.990	25.1	424AN-04/ 15	474SW-55	474NP-10/ 14	02 = 3/4"	04 = 1/2" - 14 NPT
TPNBS-5	T26128	1.120	28.4	424AN-04/ 15	474SW-56	474NP-15/ 20	03 = 1"	07 = 3/4" - 14 NPT
TPNBS-4	T26129	1.150	29.2	424AN-04/ 15	474SW-56	474NP-15/ 20	04 = 1-1/4"	05 = 1/2" - 14 NPT
TPNBS-3	T26130	1.230	31.2	424AN-05	474SW-56	474NP-15/ 20	05 = 1-1/2"	08 = 3/4" - 14 NPT
TPNBS-2	T26131	1.300	33.0	424AN-05	474SW-56	474NP-15/ 20	06 = 2"	10 = 3/4" - 14 NPT
TPNBS-1	T26132	1.450	36.8	424AN-05/ 06	474SW-57	474NP-21/ 27	07 = 2-1/2"	14 = 1" - 11-1/2 NPT
TPNBS-1/0	T26133	1.540	39.1	424AN-06	474SW-58	474NP-28/ 31	08 = 3"	15 = 1" - 11-1/2 NPT
TPNBS-2/0	T26134	1.610	40.9	424AN-06	474SW-58	474NP-28/ 31	09 = 3-1/2"	20 = 1-1/4" - 11-1/2 NPT
TPNBS-3/0	T26135	1.830	46.5	424AN-07	474SW-59	474NP-32	10 = 1/2"	21 = 1-1/4" - 11-1/2 NPT
TPNBS-4/0	T26136	2.000	50.8	424AN-07	474SW-60	474NP-33	12 = 3/4"	27 = 1-1/2" - 11-1/2 NPT
TPNBS-262	T26137	2.160	54.9	424AN-07	474SW-60	474NP-33	15 = 1"	28 = 1-1/2" - 11-1/2 NPT
TPNBS-313	T26138	2.340	59.4	424AN-07	474SW-61	474NP-38		31 = 2" - 11-1/2 NPT
TPNBS-373	T26139	2.460	62.5	424AN-08	474SW-62	474NP-39		32 = 2" - 11-1/2 NPT
TPNBS-444	T26140	2.620	66.5	424AN-08	474SW-62	474NP-39		33 = 2" - 11-1/2 NPT
TPNBS-535	T26141	2.880	73.2	424AN-09	474SW-63	474NP-45		38 = 2-1/2" - 8 NPT
TPNBS-646	T26142	3.200	81.3	424AN-09	474SW-64	474NP-47		39 = 2-1/2" - 8 NPT
TPNBS-777	T26143	3.450	87.6	***	474SW-64	474NP-47		45 = 3" - 8 NPT 47 = 3" - 8 NPT