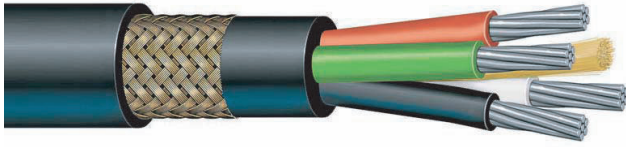




BOSTRIG™ TYPE P POWER CABLE 600V OR 0.6/1kV

Four 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
FPNBS-8	T26144	8	7.57	0.080	2.0	0.910	23.1	0.70	2.3	0.13	0.4	95	312	47	52	56	63	645	960
FPNBS-6	T26145	6	12.5	0.080	2.0	1.110	28.2	0.46	1.5	0.12	0.4	126	413	63	70	75	91	940	1,400
FPNBS-5	T26146	5	18.6	0.080	2.0	1.180	30.0	0.33	1.1	0.11	0.4	140	459	78	82	88	120	1,125	1,675
FPNBS-4	T26147	4	21.5	0.080	2.0	1.240	31.5	0.29	1.0	0.11	0.4	153	502	86	92	99	126	1,225	1,825
FPNBS-3	T26148	3	25.6	0.080	2.0	1.340	34.0	0.23	0.8	0.11	0.4	173	567	99	108	116	148	1,525	2,270
FPNBS-2	T26149	2	30.7	0.080	2.0	1.410	35.8	0.18	0.6	0.10	0.3	187	613	111	122	131	161	1,730	2,575
FPNBS-1	T26150	1	46.1	0.080	2.0	1.580	40.1	0.14	0.5	0.10	0.3	178	584	137	143	153	202	2,205	3,280
FPNBS-1/0	T26151	1/0	56.3	0.110	2.8	1.720	43.7	0.12	0.4	0.10	0.3	190	623	156	164	176	229	2,660	3,960
FPNBS-2/0	T26152	2/0	66.5	0.110	2.8	1.820	46.2	0.09	0.3	0.10	0.3	212	695	175	188	201	254	3,090	4,600
FPNBS-3/0	T26153	3/0	92.1	0.110	2.8	2.100	53.3	0.08	0.3	0.10	0.3	245	804	213	218	234	313	4,150	6,175
FPNBS-4/0	T26154	4/0	112.6	0.110	2.8	2.190	55.6	0.07	0.2	0.09	0.3	259	850	241	252	270	354	4,845	7,210
FPNBS-262	T26155	262	133.0	0.110	2.8	2.340	59.4	0.06	0.2	0.09	0.3	247	810	267	294	315	395	5,275	7,850
FPNBS-313	T26156	313	158.6	0.110	2.8	2.600	66.0	0.05	0.2	0.09	0.3	270	886	298	321	344	442	6,640	9,880
FPNBS-373	T26157	373	189.3	0.110	2.8	2.700	68.6	0.04	0.1	0.09	0.3	292	958	333	361	387	492	7,410	11,025
FPNBS-444	T26158	444	225.1	0.140	3.6	2.920	74.2	0.04	0.1	0.09	0.3	318	1,043	371	411	440	549	8,835	13,150
FPNBS-535	T26159	535	271.2	0.140	3.6	3.320	84.3	0.04	0.1	0.09	0.3	291	954	417	443	475	608	10,690	15,910
FPNBS-646	T26160	646	327.5	0.140	3.6	3.470	88.1	0.04	0.1	0.09	0.3	314	1,030	469	516	553	678	12,430	18,500
FPNBS-777	T26161	777	393.8	0.140	3.6	3.760	95.5	0.04	0.1	0.09	0.3	345	1,132	528	562	602	750	14,355	21,365

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 Table 25 - 110°C values based on API 14F.

The ampacity of 4 conductor cables is based on three current carrying conductors and the fourth conductor being used as a Neutral or Grounding conductor. If all conductors are current carrying, the ampacity must be reduced by 0.8.

*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					
FPNBS-8	T26144	0.910	23.1	424AN-03/ 04/ 12/ 15	474SW-55	474NP-10/ 14	01 = 1/2"	03 = 1/2" - 14 NPT
FPNBS-6	T26145	1.110	28.2	424AN-04/ 15	474SW-56	474NP-15/ 20	02 = 3/4"	04 = 1/2" - 14 NPT
FPNBS-5	T26146	1.180	30.0	424AN-05	474SW-56	474NP-15/ 20	03 = 1"	07 = 3/4" - 14 NPT
FPNBS-4	T26147	1.240	31.5	424AN-05	474SW-56	474NP-15/ 20	04 = 1-1/4"	05 = 1/2" - 14 NPT
FPNBS-3	T26148	1.340	34.0	424AN-05	474SW-57	474NP-21/ 27	05 = 1-1/2"	08 = 3/4" - 14 NPT
FPNBS-2	T26149	1.410	35.8	424AN-05	474SW-57	474NP-21/ 27	06 = 2"	10 = 3/4" - 14 NPT
FPNBS-1	T26150	1.580	40.1	424AN-06	474SW-58	474NP-28/ 31	07 = 2-1/2"	14 = 1" - 11-1/2 NPT
FPNBS-1/0	T26151	1.720	43.7	424AN-06	474SW-59	474NP-32	08 = 3"	15 = 1" - 11-1/2 NPT
FPNBS-2/0	T26152	1.820	46.2	424AN-06	474SW-59	474NP-32	09 = 3-1/2"	20 = 1-1/4" - 11-1/2 NPT
FPNBS-3/0	T26153	2.100	53.3	424AN-07	474SW-60	474NP-33	10 = 1/2"	21 = 1-1/4" - 11-1/2 NPT
FPNBS-4/0	T26154	2.190	55.6	424AN-07	474SW-61	474NP-38	12 = 3/4"	27 = 1-1/2" - 11-1/2 NPT
FPNBS-262	T26155	2.340	59.4	424AN-08	474SW-61	474NP-38	15 = 1"	28 = 1-1/2" - 11-1/2 NPT
FPNBS-313	T26156	2.600	66.0	424AN-08	474SW-62	474NP-39		31 = 2" - 11-1/2 NPT
FPNBS-373	T26157	2.700	68.6	424AN-08/ 09	474SW-63	474NP-45		32 = 2" - 11-1/2 NPT
FPNBS-444	T26158	2.920	74.2	424AN-09	474SW-64	474NP-47		33 = 2" - 11-1/2 NPT
FPNBS-535	T26159	3.320	84.3	***	***	***		38 = 2-1/2" - 8 NPT
FPNBS-646	T26160	3.470	88.1	***	***	***		39 = 2-1/2" - 8 NPT
FPNBS-777	T26161	3.760	95.5	***	***	***		45 = 3" - 8 NPT
								47 = 3" - 8 NPT