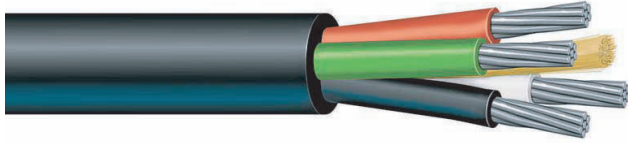




BOSTRIG™ TYPE P POWER CABLE 600V OR 0.6/1kV

Four conductor / **unarmored**

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, 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
- Meets IEEE standards for 600V and performance requirements of IEC standards for 0.6/1 kV
- Unarmored cables suitable for Class 1, Division 2 and Zone 2 hazardous locations offshore
- Meets the requirements of UL 1277 and UL 1569 for Type TC-ER exposed runs

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- Type TC-ER
CSA 22.2 No. 230 & No. 38 Direct Burial (#14 AWG & 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

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) 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
FPN-8	T26079	8	7.57	0.060	1.5	0.690	17.5	0.70	2.3	0.12	0.4	95	312	47	52	63	375	560	
FPN-6	T26080	6	12.5	0.080	2.0	0.890	22.6	0.46	1.5	0.11	0.4	126	413	63	70	75	590	750	
FPN-5	T26081	5	18.6	0.080	2.0	0.960	24.4	0.33	1.1	0.11	0.4	140	459	78	82	88	750	1,120	
FPN-4	T26082	4	21.5	0.080	2.0	1.020	25.9	0.29	1.0	0.10	0.3	153	502	86	92	99	870	1,300	
FPN-3	T26083	3	25.6	0.080	2.0	1.110	28.2	0.23	0.8	0.10	0.3	173	567	99	108	116	1,070	1,600	
FPN-2	T26084	2	30.7	0.080	2.0	1.190	30.2	0.18	0.6	0.10	0.3	187	613	111	122	131	1,260	1,880	
FPN-1	T26085	1	46.1	0.080	2.0	1.360	34.5	0.14	0.5	0.09	0.3	178	584	137	143	153	1,640	2,440	
FPN-1/0	T26086	1/0	56.3	0.080	2.0	1.440	36.6	0.12	0.4	0.09	0.3	190	623	156	164	176	1,955	2,910	
FPN-2/0	T26087	2/0	66.5	0.080	2.0	1.540	39.1	0.09	0.3	0.09	0.3	212	695	175	188	201	2,345	3,490	
FPN-3/0	T26088	3/0	92.1	0.110	2.8	1.840	46.7	0.08	0.3	0.09	0.3	245	804	213	218	234	3,265	4,870	
FPN-4/0	T26089	4/0	112.6	0.110	2.8	1.910	48.5	0.07	0.2	0.09	0.3	259	850	241	252	270	3,905	5,820	
FPN-262	T26090	262	133.0	0.110	2.8	2.070	52.6	0.06	0.2	0.09	0.3	247	810	267	294	315	4,605	6,860	
FPN-313	T26091	313	158.6	0.110	2.8	2.300	58.4	0.05	0.2	0.09	0.3	270	886	298	321	344	5,465	8,140	
FPN-373	T26092	373	189.3	0.110	2.8	2.420	61.5	0.04	0.1	0.09	0.3	292	958	333	361	387	6,235	9,290	
FPN-444	T26093	444	225.1	0.110	2.8	2.580	65.5	0.04	0.1	0.09	0.3	318	1,043	371	411	440	7,400	11,030	
FPN-535	T26094	535	271.2	0.140	3.6	2.940	74.7	0.04	0.1	0.09	0.3	291	954	417	443	475	6,080	8,960	
FPN-646	T26095	646	327.5	0.140	3.6	3.120	79.2	0.04	0.1	0.09	0.3	314	1,030	469	516	553	6,780	10,720	
FPN-777	T26096	777	393.8	0.140	3.6	3.410	86.6	0.03	0.1	0.09	0.3	345	1,132	528	562	602	7,500	12,585	

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: Unarmored	Non-Explosion Proof: Unarmored (metric)	Non-Explosion Proof: Unarmored (NPT)	Explosion Proof: (Unarmored) Hub Size Reference	Non-Explosion Proof: (Unarmored) - NPT Thread Size Reference
		in	mm					
FPN-8	T26079	0.690	17.5	424UB-03/ 04	494AB-55	494NE-10/ 14	01 = 1/2"	03 = 1/2" - 14 NPT
FPN-6	T26080	0.890	22.6	424UB-04	494AB-56	494NE-15/ 20	02 = 1/2"	04 = 1/2" - 14 NPT
FPN-5	T26081	0.960	24.4	424UB-04/ 05/ 15	494AB-56/ 57	494NE-15/ 20/ 21/ 27	03 = 3/4"	05 = 1/2" - 14 NPT
FPN-4	T26082	1.020	25.9	424UB-04/ 05/ 15	494AB-56/ 57	494NE-15/ 20/ 21/ 27	04 = 1"	08 = 3/4" - 14 NPT
FPN-3	T26083	1.110	28.2	424UB-05/15	494AB-57	494NE-21/ 27	05 = 1-1/4"	10 = 3/4" - 14 NPT
FPN-2	T26084	1.190	30.2	424UB-05/ 15/ 06	494AB-57	494NE-21/ 27	15 = 1-1/2"	14 = 1" - 11-1/2 NPT
FPN-1	T26085	1.360	34.5	424UB-06	494AB-59	494NE-32	06 = 2"	15 = 1" - 11-1/2 NPT
FPN-1/0	T26086	1.440	36.6	424UB-06	494AB-59	494NE-32	07 = 2-1/2"	20 = 1-1/4" - 11-1/2 NPT
FPN-2/0	T26087	1.540	39.1	424UB-06	494AB-59	494NE-32	08 = 3"	21 = 1-1/4" - 11-1/2 NPT
FPN-3/0	T26088	1.840	46.7	424UB-07	494AB-61	494NE-38	09 = 3-1/2"	27 = 1-1/2" - 11-1/2 NPT
FPN-4/0	T26089	1.910	48.5	424UB-07	494AB-61	494NE-38		32 = 2" - 11-1/2 NPT
FPN-262	T26090	2.070	52.6	424UB-07/ 08	494AB-62	494NE-44		38 = 2-1/2" - 8 NPT
FPN-313	T26091	2.300	58.4	424UB-08/ 09	494AB-63	494NE-45		44 = 3" - 8 NPT
FPN-373	T26092	2.420	61.5	424UB-08/ 09	494AB-63	494NE-45		45 = 3" - 8 NPT
FPN-444	T26093	2.580	65.5	424UB-09	***	***		
FPN-535	T26094	2.940	74.7	***	***	***		
FPN-646	T26095	3.120	79.2	***	***	***		
FPN-777	T26096	3.410	86.6	***	***	***		