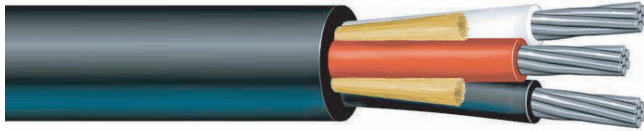




## BOSTRIG™ TYPE P POWER CABLE 600V OR 0.6/1kV

Three 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, 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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**Prysmian**  
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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
TPN-8	T26061	8	7.57	0.060	1.5	0.640	16.3	0.70	2.3	0.12	0.4	95	312	47	52	63	300	445	
TPN-6	T26062	6	12.5	0.060	1.5	0.770	19.6	0.46	1.5	0.11	0.4	126	413	63	70	91	435	645	
TPN-5	T26063	5	18.6	0.080	2.0	0.890	22.6	0.33	1.1	0.11	0.4	140	459	78	82	120	555	825	
TPN-4	T26064	4	21.5	0.080	2.0	0.930	23.6	0.29	1.0	0.10	0.3	153	502	86	92	99	685	1,020	
TPN-3	T26065	3	25.6	0.080	2.0	1.010	25.7	0.23	0.8	0.10	0.3	173	567	99	108	116	830	1,235	
TPN-2	T26066	2	30.7	0.080	2.0	1.070	27.2	0.18	0.6	0.10	0.3	187	613	111	122	131	965	1,435	
TPN-1	T26067	1	46.1	0.080	2.0	1.220	31.0	0.14	0.5	0.09	0.3	178	584	137	143	153	1,270	1,890	
TPN-1/0	T26068	1/0	56.3	0.080	2.0	1.300	33.0	0.12	0.4	0.09	0.3	190	623	156	164	176	1,545	2,300	
TPN-2/0	T26069	2/0	66.5	0.080	2.0	1.390	35.3	0.09	0.3	0.09	0.3	212	695	175	188	201	1,815	2,700	
TPN-3/0	T26070	3/0	92.1	0.080	2.0	1.550	39.4	0.08	0.3	0.09	0.3	245	804	213	218	234	2,400	3,570	
TPN-4/0	T26071	4/0	112.6	0.110	2.8	1.720	43.7	0.07	0.2	0.09	0.3	259	850	241	252	270	3,015	4,485	
TPN-262	T26072	262	133.0	0.110	2.8	1.870	47.5	0.06	0.2	0.09	0.3	247	810	267	294	315	3,520	5,240	
TPN-313	T26073	313	158.6	0.110	2.8	2.050	52.1	0.05	0.2	0.09	0.3	270	886	298	321	344	4,180	6,220	
TPN-373	T26074	373	189.3	0.110	2.8	2.180	55.4	0.04	0.1	0.09	0.3	292	958	333	361	387	4,780	7,115	
TPN-444	T26075	444	225.1	0.110	2.8	2.330	59.2	0.04	0.1	0.09	0.3	318	1,043	371	411	440	5,680	8,455	
TPN-535	T26076	535	271.2	0.110	2.8	2.540	64.5	0.04	0.1	0.09	0.3	291	954	417	443	475	6,690	9,955	
TPN-646	T26077	646	327.5	0.140	3.6	2.810	71.4	0.04	0.1	0.09	0.3	314	1,030	469	516	553	8,215	12,225	
TPN-777	T26078	777	393.8	0.140	3.6	3.070	78.0	0.03	0.1	0.09	0.3	345	1,132	528	562	602	9,720	14,465	

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	Non-Explosion Proof: Armored	Explosion Proof: (Armored) Hub Size Reference	Non-Explosion Proof: (Armored) - NPT Thread Size Reference
		in	mm					
TPN-8	026061	0.640	16.3	424UB-03	494AB-55	494NE-10/ 14	01 = 1/2"	03 = 1/2" - 14 NPT
TPN-6	026062	0.770	19.6	424UB-04	494AB-55/ 56	494NE-10/ 14/ 15/ 20	02 = 1/2"	04 = 1/2" - 14 NPT
TPN-5	026063	0.890	22.6	424UB-04	494AB-56	494NE-15/ 20	03 = 3/4"	05 = 1/2" - 14 NPT
TPN-4	026064	0.930	23.6	424UB-04	494AB-56	494NE-15/ 20	04 = 1"	08 = 3/4" - 14 NPT
TPN-3	026065	1.010	25.7	424UB-04/ 05/ 15	494AB-56/ 57	494NE-15/ 20/ 21/ 27	05 = 1-1/4"	10 = 3/4" - 14 NPT
TPN-2	026066	1.070	27.2	424UB-05/ 15	494AB-56/ 57	494NE-15/ 20/ 21/ 27	15 = 1-1/2"	14 = 1" - 11-1/2 NPT
TPN-1	026067	1.220	31.0	424UB-05/ 15/ 06	494AB-57	494NE-21/ 27	06 = 2"	15 = 1" - 11-1/2 NPT
TPN-1/0	026068	1.300	33.0	424UB-06	494AB-57/ 59	494NE-21/ 27/ 32	07 = 2-1/2"	20 = 1-1/4" - 11-1/2 NPT
TPN-2/0	026069	1.390	35.3	424UB-06	494AB-59	494NE-32	08 = 3"	21 = 1-1/4" - 11-1/2 NPT
TPN-3/0	026070	1.550	39.4	424UB-06	494AB-59	494NE-32	09 = 3-1/2"	27 = 1-1/2" - 11-1/2 NPT
TPN-4/0	026071	1.720	43.7	424UB-07	494AB-61	494NE-38		32 = 2" - 11-1/2 NPT
TPN-262	026072	1.870	47.5	424UB-07	494AB-61	494NE-38		38 = 2-1/2" - 8 NPT
TPN-313	026073	2.050	52.1	424UB-07/ 08	494AB-61	494NE-38		44 = 3" - 8 NPT
TPN-373	026074	2.180	55.4	424UB-08/ 09	494AB-62/ 63	494NE-44/ 45		45 = 3" - 8 NPT
TPN-444	026075	2.330	59.2	424UB-08/ 09	494AB-63	494NE-45		
TPN-535	026076	2.540	64.5	424UB-09	494AB-63	494NE-45		
TPN-646	026077	2.810	71.4	424UB-09	***	***		
TPN-777	026078	3.070	78.0	***	***	***		