



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

Two 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) 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
DPN-8	T26043	8	7.57	0.060	1.5	0.590	15.0	0.70	2.3	0.12	0.4	95	312	58	64	69	77	225	335
DPN-6	T26044	6	12.5	0.060	1.5	0.710	18.0	0.46	1.5	0.11	0.4	126	413	83	85	91	111	320	475
DPN-5	T26045	5	18.6	0.060	1.5	0.810	20.6	0.33	1.1	0.11	0.4	140	459	95	101	108	147	440	655
DPN-4	T26046	4	21.5	0.080	2.0	0.870	22.1	0.29	1.0	0.10	0.3	153	502	104	110	118	153	510	760
DPN-3	T26047	3	25.6	0.080	2.0	0.920	23.4	0.23	0.8	0.10	0.3	173	567	121	132	141	180	605	900
DPN-2	T26048	2	30.7	0.080	2.0	1.010	25.7	0.18	0.6	0.10	0.3	187	613	138	149	160	196	725	1,080
DPN-1	T26049	1	46.0	0.080	2.0	1.150	29.2	0.14	0.5	0.09	0.3	178	584	168	174	186	245	930	1,385
DPN-1/0	T26050	1/0	56.3	0.080	2.0	1.220	31.0	0.12	0.4	0.09	0.3	190	623	190	199	213	278	1,125	1,675
DPN-2/0	T26051	2/0	66.5	0.080	2.0	1.300	33.0	0.09	0.3	0.09	0.3	212	695	213	242	259	309	1,295	1,925
DPN-3/0	T26052	3/0	92.1	0.080	2.0	1.500	38.1	0.08	0.3	0.09	0.3	245	804	259	265	284	382	1,710	2,545
DPN-4/0	T26053	4/0	112.6	0.080	2.0	1.610	40.9	0.07	0.2	0.09	0.3	259	850	293	307	329	432	2,125	3,160
DPN-262	T26054	262	133.0	0.110	2.8	1.840	46.7	0.06	0.2	0.09	0.3	247	810	325	358	383	481	2,600	3,870
DPN-313	T26055	313	158.6	0.110	2.8	1.970	50.0	0.05	0.2	0.09	0.3	270	886	362	391	419	539	3,035	4,515
DPN-373	T26056	373	189.3	0.110	2.8	2.090	53.1	0.04	0.1	0.09	0.3	292	958	405	442	473	599	3,380	5,030
DPN-444	T26057	444	225.1	0.110	2.8	2.180	55.4	0.04	0.1	0.09	0.3	318	1,043	451	504	540	669	3,955	5,885
DPN-535	T26058	535	271.2	0.110	2.8	2.430	61.7	0.04	0.1	0.09	0.3	291	954	507	538	576	741	4,960	7,380
DPN-646	T26059	646	327.5	0.110	2.8	2.630	66.8	0.04	0.1	0.09	0.3	314	1,030	570	632	677	944	5,880	8,750
DPN-777	T26060	777	393.8	0.140	3.6	2.900	73.7	0.03	0.1	0.09	0.3	345	1,132	641	684	733	951	7,030	10,460

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: 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					
DPN-8	T26043	0.590	15.0	424UB-02/ 03	494AB-53/ 55	494NE-05/ 08/ 10/ 14	01 = 1/2"	03 = 1/2" - 14 NPT
DPN-6	T26044	0.710	18.0	424UB-03/ 04	494AB-55	494NE-10/ 14	02 = 1/2"	04 = 1/2" - 14 NPT
DPN-5	T26045	0.810	20.6	424UB-04	494AB-55/ 56	494NE-10/ 14/ 15/ 20	03 = 3/4"	05 = 1/2" - 14 NPT
DPN-4	T26046	0.870	22.1	424UB-04	494AB-56	494NE-15/ 20	04 = 1"	08 = 3/4" - 14 NPT
DPN-3	T26047	0.920	23.4	424UB-04	494AB-56	494NE-15/ 20	05 = 1-1/4"	10 = 3/4" - 14 NPT
DPN-2	T26048	1.010	25.7	424UB-04/ 05/ 15	494AB-56/ 57	494NE-15/ 20/ 21/ 27	15 = 1-1/2"	14 = 1" - 11-1/2 NPT
DPN-1	T26049	1.150	29.2	424UB-05/ 15/ 06	494AB-57	494NE-21/ 27	06 = 2"	15 = 1" - 11-1/2 NPT
DPN-1/0	T26050	1.220	31.0	424UB-05/ 15/ 06	494AB-57	494NE-21/ 27	07 = 2-1/2"	20 = 1-1/4" - 11-1/2 NPT
DPN-2/0	T26051	1.300	33.0	424UB-06	494AB-57/ 59	494NE-21/ 27/ 32	08 = 3"	21 = 1-1/4" - 11-1/2 NPT
DPN-3/0	T26052	1.500	38.1	424UB-06	494AB-59	494NE-32	09 = 3-1/2"	27 = 1-1/2" - 11-1/2 NPT
DPN-4/0	T26053	1.610	40.9	424UB-06/ 07	494AB-61	494NE-38		32 = 2" - 11-1/2 NPT
DPN-262	T26054	1.840	46.7	424UB-07	494AB-61	494NE-38		38 = 2-1/2" - 8 NPT
DPN-313	T26055	1.970	50.0	424UB-07/ 08	494AB-61	494NE-38		44 = 3" - 8 NPT
DPN-373	T26056	2.090	53.1	424UB-08	494AB-62	494NE-44		45 = 3" - 8 NPT
DPN-444	T26057	2.180	55.4	424UB-08/ 09	494AB-62/ 63	494NE-44/ 45		
DPN-535	T26058	2.430	61.7	424UB-09	494AB-63	494NE-45		
DPN-646	T26059	2.630	66.8	424UB-09	***	***		
DPN-777	T26060	2.900	73.7	424UB-09	***	***		