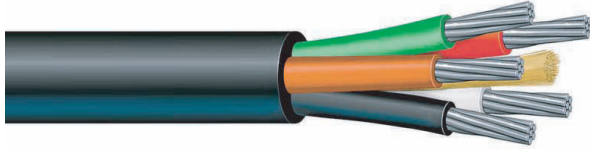




BOSTRIG™ TYPE P POWER CABLE 600V OR 0.6/1kV

Five conductor / **unarmored**

TYPE P POWER CABLE **600V or 0.6/1kV, 8 AWG to 4/0 AWG**



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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A brand of the

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Group

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
QPN-8	T26097	8	7.57	0.060	1.5	0.760	19.3	0.70	2.3	0.12	0.4	95	312	38	42	45	50	460	685
QPN-6	T26098	6	12.5	0.080	2.0	0.980	24.9	0.46	1.5	0.11	0.4	126	413	50	56	60	73	725	1,080
QPN-5	T26099	5	18.6	0.080	2.0	1.080	27.4	0.33	1.1	0.11	0.4	140	459	62	66	70	96	950	1,415
QPN-4	T26100	4	21.5	0.080	2.0	1.120	28.4	0.29	1.0	0.10	0.3	153	502	69	74	79	101	1,075	1,600
QPN-3	T26101	3	25.6	0.080	2.0	1.200	30.5	0.23	0.8	0.10	0.3	173	567	79	86	93	118	1,260	1,875
QPN-2	T26102	2	30.7	0.080	2.0	1.270	32.3	0.18	0.6	0.10	0.3	187	613	89	98	105	129	1,530	2,275
QPN-1	T26103	1	46.1	0.080	2.0	1.510	38.4	0.14	0.5	0.09	0.3	178	584	110	114	122	162	2,040	3,035
QPN-1/0	T26104	1/0	56.3	0.080	2.0	1.650	41.9	0.12	0.4	0.09	0.3	190	623	125	131	141	183	2,455	3,655
QPN-2/0	T26105	2/0	66.5	0.110	2.8	1.790	45.5	0.09	0.3	0.09	0.3	212	695	140	150	161	203	2,695	4,010
QPN-3/0	T26106	3/0	92.1	0.110	2.8	2.060	52.3	0.08	0.3	0.09	0.3	245	804	170	174	187	250	3,995	5,945
QPN-4/0	T26107	4/0	112.6	0.110	2.8	2.200	55.9	0.07	0.2	0.09	0.3	259	850	193	202	216	283	4,785	7,120

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	Non-Explosion Proof: Unarmored	Explosion Proof: (Unarmored) Hub Size Reference	Non-Explosion Proof: (Unarmored) - NPT Thread Size Reference
		in	mm		(metric)	(NPT)		
QPN-8	T26097	0.760	19.3	424UB-03/ 04	494AB-55/ 56	494NE-10/ 14/ 15/ 20	01 = 1/2"	03 = 1/2" - 14 NPT
QPN-6	T26098	0.980	24.9	424UB-04/ 05/ 15	494AB-56/ 57	494NE-15/ 20/ 21/ 27	02 = 1/2"	04 = 1/2" - 14 NPT
QPN-5	T26099	1.080	27.4	424UB-05/ 15	494AB-57	494NE-21/ 27	03 = 3/4"	05 = 1/2" - 14 NPT
QPN-4	T26100	1.120	28.4	424UB-05/ 15	494AB-57	494NE-21/ 27	04 = 1"	08 = 3/4" - 14 NPT
QPN-3	T26101	1.200	30.5	424UB-05/ 15/ 06	494AB-57	494NE-21/ 27	05 = 1-1/4"	10 = 3/4" - 14 NPT
QPN-2	T26102	1.270	32.3	424UB-06	494AB-57/ 59	494NE-21/ 27/ 32	15 = 1-1/2"	14 = 1" - 11-1/2 NPT
QPN-1	T26103	1.510	38.4	424UB-06	494AB-59	494NE-32	06 = 2"	15 = 1" - 11-1/2 NPT
QPN-1/0	T26104	1.650	41.9	424UB-06/ 07	494AB-61	494NE-38	07 = 2-1/2"	20 = 1-1/4" - 11-1/2 NPT
QPN-2/0	T26105	1.790	45.5	424UB-07	494AB-61	494NE-38	08 = 3"	21 = 1-1/4" - 11-1/2 NPT
QPN-3/0	T26106	2.060	52.3	424UB-07/ 08	494AB-61	494NE-38	09 = 3-1/2"	27 = 1-1/2" - 11-1/2 NPT
QPN-4/0	T26107	2.200	55.9	424UB-08/ 09	494AB-62/ 63	494NE-44/ 45		32 = 2" - 11-1/2 NPT
								38 = 2-1/2" - 8 NPT
								44 = 3" - 8 NPT
								45 = 3" - 8 NPT