



BOSTRIG™ 125 TYPE P POWER CABLE

single conductor / unarmored
18 AWG to 1111 MCM / 600/1000V & 2000V

APPLICATIONS

Bostrig™125 Type P Marine and Offshore Cable is primarily designed for power, control, signal and instrumentation applications for offshore, land rigs, marine vessels and oil and gas drilling rigs.

Bostrig cables have excellent resistance to oil, abrasion, moisture, sunlight and ester-based mud (Type P-MR).

The standard insulation has a continuous operating temperature of 125°C allowing for higher ampacity levels. Larger diameter cables carry a new flexible design. They satisfy Transport Canada's cold bend at -40°C and cold impact at -35°C (CSA C 22.2 No. 0.3).

This product is readily available in an armored and sheathed version.

FEATURES

- **SUPERIOR RESISTANCE TO OIL, ABRASION, MOISTURE, SUNLIGHT, MUD, CRUSH AND IMPACT**
- **SUPER-FLEXIBLE AT 4/0 AWG AND LARGER**
- **MEETS IEEE STANDARDS FOR 600 & 2000V / IEC STANDARDS FOR 0.6/1kV**

CONSTRUCTION

1. CONDUCTOR

Soft annealed stranded tinned copper per ASTM B 33. A polyester tape separator is used over the conductor.

2. INSULATION

Bostrig-125 Type P chemically cross-linked polyolefin (XLPO), meeting IEEE 1580 (2001).

RATINGS

Meets all test requirements of IEEE 1580 (2001) and the flame test in IEC 60332-3, Category A.

Listed by ETL per IEEE 1580 (2001), UL 1309/CSA 245 and IEEE 45 for 600V & 2000V.

APPROVALS

ETL/Intertek Testing Services Listed as Marine Shipboard Cable in accordance with IEEE 45 (1998), IEEE 1580 (2001), UL 1309/CSA245 and the performance requirements of IEC 60092-3.

Det Norske Veritas Type Approval Certificates E-6849, E-6850, E-6851, E-6852 and E-6853.

American Bureau of Shipping Approval Certificate B315003-X

Lloyds Registry of Shipping Approval Certificates No. 95/00161(E2) and 95-00162(E2)

Transport Canada Approved AMS400-20-2

Manufactured to BIW Specifying Standard J104



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18 AWG to 1111 MCM / 600/1000V & 2000V



600/1000V

Type Designation	Draka Number	Conductor Size AWG/MCM • mm ²	Insulation Thickness in • mm	Cable Diameter (nominal) in • mm	Impedance (Phase-Neutral) Ω/kft • Ω/km	Inductance mH/kft • mH/km	Capacitance pF/ft • pF/m	Calculated Ampacity [†] (measured @ °C) 95 • 100 • 110	Cable Weight (approximate) Lbs/mft • Kg/km
SP-18	026000	18	030 • 0.76	.111 • 2.8	6.4 • 21.0	0.18 • 0.6	58 • 190	16 • 16 • 17	11 • 16
SP-16	026001	16	030 • 0.76	.119 • 3.0	4.5 • 14.8	0.18 • 0.6	65 • 213	20 • 28 • 25	13 • 19
SP-14	026002	14	030 • 0.76	.133 • 3.4	2.9 • 9.5	0.16 • 0.5	77 • 253	29 • 37 • 39	18 • 27
SP-12	026003	12	030 • 0.76	.151 • 3.8	1.9 • 6.2	0.15 • 0.5	90 • 295	38 • 45 • 49	28 • 42
SP-10	026004	10	030 • 0.76	.180 • 4.6	1.2 • 3.9	0.14 • 0.5	107 • 351	51 • 58 • 61	44 • 65
SP-8	026005	8 • 8.4	045 • 1.1	.233 • 5.9	0.7 • 2.3	0.14 • 0.5	95 • 311	67 • 72 • 77	69 • 103
SP-6	026006	6 • 13.3	045 • 1.1	.290 • 7.4	0.5 • 1.6	0.12 • 0.4	126 • 413	90 • 96 • 103	103 • 153
SP-5	026007	5 • 18.6	045 • 1.1	.335 • 8.5	0.3 • 1.6	0.12 • 0.4	140 • 459	111 • 109 • 117	145 • 216
SP-4	026008	4 • 21.5	045 • 1.1	.353 • 9.0	0.3 • 1.6	0.12 • 0.4	153 • 502	122 • 128 • 137	171 • 254
SP-3	026009	3 • 27.2	045 • 1.1	.380 • 9.7	0.2 • 0.7	0.11 • 0.4	173 • 567	142 • 146 • 156	200 • 298
SP-2	026010	2 • 33.7	045 • 1.1	.423 • 10.7	0.2 • 0.7	0.11 • 0.4	187 • 613	162 • 169 • 181	231 • 344
SP-1	026011	1 • 46.1	055 • 1.4	.493 • 12.5	0.1 • 0.3	0.11 • 0.4	178 • 584	197 • 194 • 208	348 • 518
SP-1/0	026012	1/0 • 56.3	055 • 1.4	.524 • 13.3	0.1 • 0.3	0.11 • 0.4	190 • 623	223 • 227 • 243	414 • 616
SP-2/0	026013	2/0 • 67.6	055 • 1.4	.578 • 14.7	0.09 • 0.3	0.10 • 0.3	212 • 695	250 • 262 • 281	476 • 708
SP-3/0	026014	3/0 • 92.1	055 • 1.4	.659 • 16.7	0.08 • 0.3	0.10 • 0.3	245 • 804	304 • 300 • 321	671 • 999

2000V

Type Designation	Draka Number	Conductor Size AWG/MCM • mm ²	Insulation Thickness in • mm	Cable Diameter (nominal) in • mm	Impedance (Phase-Neutral) Ω/kft • Ω/km	Inductance mH/kft • mH/km	Capacitance pF/ft • pF/m	Calculated Ampacity [†] (measured @ °C) 95 • 100 • 110	Cable Weight (approximate) Lbs/mft • Kg/km
SP2KV(HD)-4/0	026015	4/0 • 112.6	105 • 2.7	.821 • 20.9	0.07 • 0.2	0.11 • 0.4	146 • 479	344 • 351 • 376	896 • 1333
SP2KV(HD)-262	026016	262 • 133.1	105 • 2.7	.895 • 22.7	0.06 • 0.2	0.10 • 0.3	162 • 531	382 • 407 • 436	1035 • 1540
SP2KV(HD)-313	026017	313 • 158.7	105 • 2.7	.966 • 24.5	0.06 • 0.2	0.10 • 0.3	175 • 574	426 • 455 • 487	1227 • 1826
SP2KV(HD)-373	026018	373 • 189.2	105 • 2.7	1.033 • 26.2	0.05 • 0.2	0.10 • 0.3	189 • 620	476 • 516 • 553	1424 • 2119
SP2KV(HD)-444	026019	444 • 225.2	1052.7	1.114 • 28.3	0.050.2	0.100.3	205 672	531 588630	1707 2540
SP2KV(HD)-535	026020	535 • 271.3	120 • 3.1	1.227 • 31.2	0.04 • 0.1	0.10 • 0.3	200 • 656	596 • 630 • 675	2025 • 3014
SP2KV(HD)-646	026021	646 • 327.5	120 • 3.1	1.331 • 33.3	0.04 • 0.1	0.10 • 0.3	216 • 708	670 • 731 • 783	2429 • 3615
SP2KV(HD)-777	026022	777 • 394.2	120 • 3.1	1.424 • 36.2	0.04 • 0.1	0.10 • 0.3	236 • 774	754 • 822 • 881	2896 • 4310
SP2KV(HD)-1111	026023	1111 • 563.0	120 • 3.1	1.675 • 42.5	0.04 • 0.1	0.10 • 0.3	257 • 843	942 • 1025 • 1098	3946 • 5872
SP-8-2kV	030477	8	0.055 • 1.40	0.265 • 6.7	0.695 • 2.28	0.108 • 0.354	82 • 269	67 • 72 • 77	74 • 111
SP-6-2kV	030478	6	0.055 • 1.40	0.326 • 8.3	0.442 • 1.45	0.099 • 0.324	108 • 354	90 • 96 • 103	110 • 164
SP-5-2kV	030479	5	0.055 • 1.40	0.354 • 9.0	0.332 • 1.09	0.097 • 0.318	120 • 393	111 • 109 • 117	147 • 220
SP-4-2kV	030480	4	0.055 • 1.40	0.38 • 9.7	0.277 • 0.91	0.095 • 0.312	131 • 430	122 • 128 • 137	170 • 254
SP-3-2kV	030481	3	0.055 • 1.40	0.42 • 10.7	0.221 • 0.72	0.092 • 0.302	148 • 485	142 • 146 • 156	206 • 307
SP-2-2kV	030482	2	0.055 • 1.40	0.449 • 11.4	0.176 • 0.58	0.090 • 0.295	160 • 525	162 • 169 • 181	251 • 374
SP-1-2kV	030483	1	0.065 • 1.65	0.519 • 13.2	0.141 • 0.46	0.091 • 0.298	158 • 518	197 • 194 • 208	341 • 507
SP-1/0-2kV	029732	1/0	0.065 • 1.65	0.549 • 13.9	0.113 • 0.37	0.089 • 0.292	168 • 551	223 • 227 • 243	405 • 603
SP-2/0-2kV	027055	2/0	0.065 • 1.65	0.594 • 15.1	0.092 • 0.30	0.088 • 0.289	184 • 604	250 • 262 • 281	499 • 742
SP-3/0-2kV	030484	3/0	0	0.684 • 17.4	0.075 • 0.25	0.086 • 0.282	216 • 708	304 • 300 • 321	668 • 994

This information is provided for reference only, please consult the factory or your representative to confirm all engineering information.

This information is not meant 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 IEEE-45 Table 25 corrected for conductor temperature. Ampacity de-rating factor for cables installed in conduit: 4 AWG and smaller multiply by 0.72; 2 AWG thru 3/0AWG multiply by 0.66; 4/0 AWG thru 1000 MCM multiply by 0.64.