

BOSTRIG™ 125 TYPE P POWER CABLE

three conductor / armored and sheathed
8 AWG to 777 MCM / 600/1000V

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). They are suitable for use in Class I, Division I and Zone I applications (armored & sheathed) and meet the crush and impact resistance requirements (C&IR) of UL 2225.

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 unarmored 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 600V / IEC STANDARDS FOR 0.6/1kV**

CONSTRUCTION

1. CONDUCTORS

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).

3. JACKET

Flame-retardant Arctic Neoprene, complying with Type N Neoprene as required in IEEE-1580 (2001). Thickness as shown on data sheet for unarmored version.

4. ARMOR

Braided bronze in accordance with IEEE 1580 (2001).

5. SHEATH

Flame-retardant Arctic Neoprene applied over the armor, complying with Type N Neoprene as required in IEEE 1580 (2001). Thickness as shown in tables on reverse.

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 (1998) for 600V.

Bostrig 125 Type P cables comply to UL 1277 Type TC exposed runs requirements and with the Crush and Impact requirements of UL 2225.

APPROVALS

ETL/Intertek Testing Services Listed as Marine Shipboard Cable in accordance with IEEE 45 (1993 draft), IEEE 45 (1998), IEEE 1580 (2001), UL 1309/CSA245 and the performance requirements of IEC 60092-3.

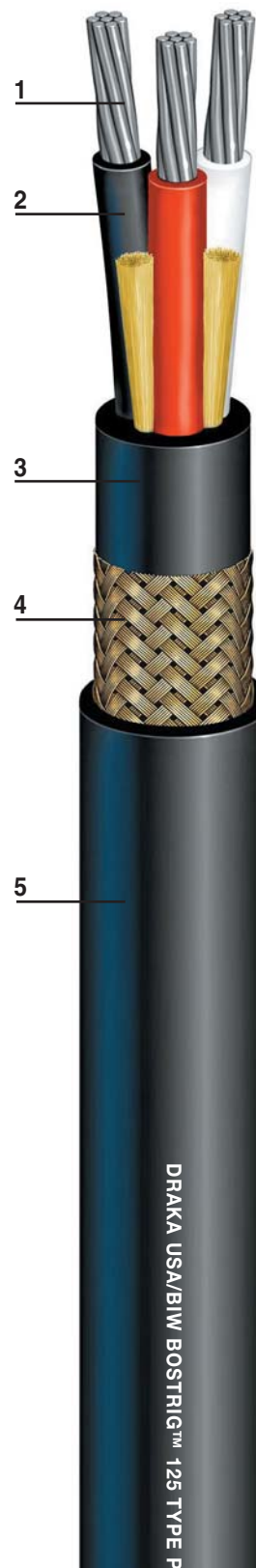
Det Norske Veritas Type Approval Certificates E-6849, E-6850, E-6851, E-6852 and E-6853.

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 J105



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Type Designation	Draka Number	Conductor Size AWG/MCM • mm ²	Sheath 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 ¹ (measured @ °C) 95 • 100 • 110	Cable Weight (approximate) Lbs/mft • Kg/km
TPNBS-8	026126	8 • 7.57	.060 • 1.5	.835 • 21.2	0.70 • 2.3	0.12 • 0.4	95 • 312	47 • 52 • 56	480 • 714
TPNBS-6	026127	6 • 12.5	.080 • 2.0	.965 • 24.5	0.46 • 1.5	0.11 • 0.4	126 • 413	63 • 70 • 75	700 • 1042
TPNBS-5	026128	5 • 18.6	.080 • 2.0	1.120 • 28.5	0.33 • 1.1	0.11 • 0.4	140 • 459	78 • 82 • 88	900 • 1339
TPNBS-4	026129	4 • 21.5	.080 • 2.0	1.140 • 29.0	0.29 • 1.0	0.10 • 0.3	153 • 502	86 • 92 • 99	1040 • 1548
TPNBS-3	026130	3 • 25.6	.080 • 2.0	1.200 • 30.5	0.23 • 0.8	0.10 • 0.3	173 • 567	99 • 108 • 116	1160 • 1726
TPNBS-2	026131	2 • 30.7	.080 • 2.0	1.265 • 32.1	0.18 • 0.6	0.10 • 0.3	187 • 613	111 • 122 • 131	1295 • 1927
TPNBS-1	026132	1 • 46.0	.110 • 2.8	1.505 • 38.2	0.14 • 0.5	0.09 • 0.3	178 • 584	137 • 143 • 153	1850 • 2753
TPNBS-1/0	026133	1/0 • 56.3	.110 • 2.8	1.620 • 41.2	0.12 • 0.4	0.09 • 0.3	190 • 623	156 • 164 • 176	2190 • 3259
TPNBS-2/0	026134	2/0 • 66.5	.110 • 2.8	1.730 • 43.9	0.09 • 0.3	0.09 • 0.3	212 • 695	175 • 188 • 201	2500 • 3720
TPNBS-3/0	026135	3/0 • 92.1	.125 • 3.2	1.975 • 50.2	0.08 • 0.3	0.09 • 0.3	245 • 804	213 • 218 • 234	3330 • 7956
TPNBS-4/0	026136	4/0 • 112.6	.125 • 3.2	2.110 • 53.6	0.07 • 0.2	0.09 • 0.3	259 • 850	241 • 252 • 270	3890 • 5789
TPNBS-262	026137	262 • 133.0	.125 • 3.2	2.290 • 58.2	0.06 • 0.2	0.09 • 0.3	247 • 810	267 • 294 • 315	4515 • 6704
TPNBS-313	026138	313 • 158.6	.140 • 3.6	2.435 • 61.9	0.05 • 0.2	0.09 • 0.3	270 • 886	298 • 321 • 344	5170 • 7694
TPNBS-373	026139	373 • 189.3	.140 • 3.6	2.585 • 65.7	0.04 • 0.1	0.09 • 0.3	292 • 958	333 • 361 • 387	5975 • 8892
TPNBS-444	026140	444 • 225.1	.140 • 3.6	2.765 • 70.2	0.04 • 0.1	0.09 • 0.3	318 • 1043	371 • 411 • 440	6980 • 10387
TPNBS-535	026141	535 • 271.2	.140 • 3.6	3.030 • 77.0	0.04 • 0.1	0.09 • 0.3	291 • 954	417 • 443 • 475	8235 • 12255
TPNBS-646	026142	646 • 327.5	.140 • 3.6	3.275 • 83.2	0.04 • 0.1	0.09 • 0.3	314 • 1030	469 • 516 • 553	9575 • 14249
TPNBS-777	026143	777 • 393.8	.140 • 3.6	3.465 • 88.0	0.03 • 0.1	0.09 • 0.3	345 • 1132	528 • 562 • 602	11280 • 16786

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.

¹Ampacity 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.