



# BOSTRIG™ 125 TYPE P POWER CABLE

three conductor / unarmored  
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).

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 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 is shown 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 <sup>2</sup>	Jacket 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 <sup>†</sup> (measured @ °C) 95 • 100 • 110	Cable Weight (approximate) Lbs/mft • Kg/km
TPN-8	026061	8 • 7.57	.060 • 1.5	.625 • 15.9	0.70 • 2.3	0.12 • 0.4	95 • 312	47 • 52 • 56	275 • 409
TPN-6	026062	6 • 12.5	.060 • 1.5	.750 • 19.1	0.46 • 1.5	0.11 • 0.4	126 • 413	63 • 70 • 75	420 • 625
TPN-5	026063	5 • 18.6	.080 • 2.0	.890 • 22.6	0.33 • 1.1	0.11 • 0.4	140 • 459	78 • 82 • 88	555 • 826
TPN-4	026064	4 • 21.5	.080 • 2.0	.925 • 23.5	0.29 • 1.0	0.10 • 0.3	153 • 502	86 • 92 • 99	695 • 1034
TPN-3	026065	3 • 25.6	.080 • 2.0	.975 • 24.8	0.23 • 0.8	0.10 • 0.3	173 • 567	99 • 108 • 116	805 • 1198
TPN-2	026066	2 • 30.7	.080 • 2.0	1.045 • 26.5	0.18 • 0.6	0.10 • 0.3	187 • 613	111 • 122 • 131	915 • 1362
TPN-1	026067	1 • 46.0	.080 • 2.0	1.225 • 31.1	0.14 • 0.5	0.09 • 0.3	178 • 584	137 • 143 • 153	1320 • 1964
TPN-1/0	026068	1/0 • 56.3	.080 • 2.0	1.340 • 34.0	0.12 • 0.4	0.09 • 0.3	190 • 623	156 • 164 • 176	1610 • 2395
TPN-2/0	026069	2/0 • 66.5	.110 • 2.8	1.440 • 36.6	0.09 • 0.3	0.09 • 0.3	212 • 695	175 • 188 • 201	1885 • 2805
TPN-3/0	026070	3/0 • 92.1	.110 • 2.8	1.665 • 42.3	0.08 • 0.3	0.09 • 0.3	245 • 804	213 • 218 • 234	2560 • 3810
TPN-4/0	026071	4/0 • 112.6	.125 • 3.2	1.800 • 45.7	0.07 • 0.2	0.09 • 0.3	259 • 850	241 • 252 • 270	3060 • 4555
TPN-262	026072	262 • 133.0	.125 • 3.2	1.950 • 49.5	0.06 • 0.2	0.09 • 0.3	247 • 810	267 • 294 • 315	3555 • 5290
TPN-313	026073	313 • 158.6	.125 • 3.2	2.095 • 53.2	0.05 • 0.2	0.09 • 0.3	270 • 886	298 • 321 • 344	4140 • 6161
TPN-373	026074	373 • 189.3	.125 • 3.2	2.245 • 57.0	0.04 • 0.1	0.09 • 0.3	292 • 958	333 • 361 • 387	4880 • 7262
TPN-444	026075	444 • 225.1	.140 • 3.6	2.425 • 61.6	0.04 • 0.1	0.09 • 0.3	318 • 1043	371 • 411 • 440	5800 • 8631
TPN-535	026076	535 • 271.2	.140 • 3.6	2.660 • 67.6	0.04 • 0.1	0.09 • 0.3	291 • 954	417 • 443 • 475	6945 • 10335
TPN-646	026077	646 • 327.5	.140 • 3.6	2.905 • 73.8	0.04 • 0.1	0.09 • 0.3	314 • 1030	469 • 516 • 553	8185 • 12818
TPN-777	026078	777 • 393.8	.140 • 3.6	3.095 • 78.6	0.03 • 0.1	0.09 • 0.3	345 • 1132	528 • 562 • 602	9695 • 14428

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.

<sup>†</sup>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.