



BOSTRIG™ 125 TYPE P CONTROL CABLE

multi-conductor / armored and sheathed
14 AWG / 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
- 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



DRAKA USA/BIW BOSTRIG™ 125 TYPE P

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14 AWG / 600/1000V



14 AWG • 1.94 mm²

| Type Designation | Draka Number | Number of Conductors | Insulation Thickness in • mm | Sheath Thickness in • mm | Cable Diameter (nominal) in • mm | Cable Weight (approximate) Lbs/mft • Kg/km |
|------------------|--------------|----------------------|------------------------------|--------------------------|----------------------------------|--|
| C14PNBS-2 | 026283 | 2 | .030 • 0.76 | .060 • 1.5 | .560 • 14.2 | 205 • 305 |
| C14PNBS-3 | 026284 | 3 | .030 • 0.76 | .060 • 1.5 | .575 • 14.6 | 240 • 357 |
| C14PNBS-4 | 026285 | 4 | .030 • 0.76 | .060 • 1.5 | .620 • 15.8 | 275 • 409 |
| C14PNBS-5 | 026286 | 5 | .030 • 0.76 | .060 • 1.5 | .660 • 16.8 | 305 • 454 |
| C14PNBS-6 | 026287 | 6 | .030 • 0.76 | .060 • 1.5 | .700 • 17.8 | 340 • 506 |
| C14PNBS-7 | 026288 | 7 | .030 • 0.76 | .060 • 1.5 | .700 • 17.8 | 355 • 528 |
| C14PNBS-8 | 026289 | 8 | .030 • 0.76 | .060 • 1.5 | .740 • 18.8 | 395 • 588 |
| C14PNBS-10 | 026290 | 10 | .030 • 0.76 | .060 • 1.5 | .860 • 21.8 | 500 • 744 |
| C14PNBS-12 | 026291 | 12 | .030 • 0.76 | .060 • 1.5 | .890 • 22.6 | 550 • 818 |
| C14PNBS-16 | 026292 | 16 | .030 • 0.76 | .060 • 1.5 | .960 • 24.4 | 655 • 975 |
| C14PNBS-20 | 026293 | 20 | .030 • 0.76 | .060 • 1.5 | 1.040 • 26.4 | 770 • 1146 |
| C14PNBS-24 | 026294 | 24 | .030 • 0.76 | .080 • 2.0 | 1.170 • 29.7 | 930 • 1384 |
| C14PNBS-30 | 026295 | 30 | .030 • 0.76 | .080 • 2.0 | 1.225 • 31.1 | 1060 • 1577 |
| C14PNBS-37 | 026296 | 37 | .030 • 0.76 | .080 • 2.0 | 1.305 • 33.2 | 1240 • 1845 |
| C14PNBS-44 | 026297 | 44 | .030 • 0.76 | .110 • 2.8 | 1.495 • 38.0 | 1510 • 2247 |
| C14PNBS-60 | 026298 | 60 | .030 • 0.76 | .110 • 2.8 | 1.625 • 41.3 | 1880 • 2298 |
| C14PNBS-91 | 026299 | 91 | .030 • 0.76 | .115 • 2.9 | 1.950 • 49.5 | 2750 • 4093 |

Control cables are not intended for continuous current carrying applications. The current limit on these cables should be for providing control functions through relays and switching devices. The maximum current for any one conductor should not exceed the value Table 3 for three conductor cables. The average of all conductors should not exceed the limit based on the total number of conductors in the cable taken from Table 4 multiplied by the ampacity from Table 3

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.

Table 3

Three Conductor Cable, four Conductor Cables with three Current Carrying Conductors 45°C Ambient

| Conductor Size Gauge | CMA | mm ² | Temperature | | |
|----------------------|-------|-----------------|-------------|-------|-------|
| | | | 95°C | 100°C | 110°C |
| 14 | 4,106 | 2.08 | 20 | 25 | 27 |

Table 4

Cables with more than four Current Carrying Conductors

| No of Conductors | Derating Factor from 3 Conductor Ampacity |
|------------------|---|
| 4-6 | 0.8 |
| 7-9 | 0.7 |
| 10-20 | 0.5 |
| 21-30 | 0.45 |
| 31-40 | 0.40 |
| 41-60 | 0.35 |
| 61 and greater | 0.30 |