



DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. E-8794
This Certificate consists of 3 pages

This is to certify that the
Electric Cable, Power Current
with type designation(s)
BOSTRIG-125 Type P, SP, BOSTRIG-125 Type P, SP2KV


Holder of certificate
Draka Marine, Oil & Gas International
Houston, TX 77032, United States

is found to comply with
Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det
Norske Veritas' Offshore Standards
IEEE 45-1998
IEEE 1580-2001
IEC 60332-3-22 (2000-10)

Application
Switch board Wires

| Type | Voltage class (kV) | Temp. class (°C) |
|---------------------------|--------------------|------------------|
| BOSTRIG-125 Type P, SP | 0,6/1 | 95 |
| BOSTRIG-125 Type P, SP2KV | 2 | 95 |



Place and date
Høvik, 2007-12-19
for DET NORSKE VERITAS AS


Marit Laumann
Head of Section



Local Office
DNV New York

This Certificate is valid until
2011-12-31


Ivar Bull
Surveyor 

Notice: This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



Cert. No.: E-8794

File No.: 827.10

Name and place of manufacturer:

Draka Cableteq USA

North Dighton

MA 02764

USA

Product description

Construction:

Conductor: Tinned stranded copper

Insulation: XLPO (Type P)

| Number of cores x conductor cross-section | | Overall diameter | | Type designation |
|---|-------------|---------------------|--------|---------------------|
| mm ² | AWG/ MCM | mm | Inches | |
| 1 x 0,96 | 18 | 2,92 | 0,115 | SP-18 |
| 1 x 1,23 | 16 | 3,05 | 0,120 | SP-16 |
| 1 x 1,94 | 14 | 3,43 | 0,135 | SP-14 |
| 1 x 3,08 | 12 | 3,81 | 0,150 | SP-12 |
| 1 x 5,53 | 10 | 4,70 | 0,185 | SP-10 |
| 1 x 7,57 | 8 | 5,97 | 0,235 | SP-8 |
| 1 x 12,5 | 6 | 7,49 | 0,295 | SP-6 |
| 1 x 18,6 | 5 | 8,51 | 0,335 | SP-5 |
| 1 x 21,5 | 4 | 9,02 | 0,355 | SP-4 |
| 1 x 25,6 | 3 | 9,65 | 0,380 | SP-3 |
| 1 x 30,7 | 2 | 10,41 | 0,410 | SP-2 |
| 1 x 46,0 | 1 | 12,57 | 0,495 | SP-1 |
| 1 x 56,3 | 1/0 | 13,97 | 0,550 | SP-1/0 |
| 1 x 66,5 | 2/0 | 14,35 | 0,565 | SP-2/0 |
| 1 x 92,1 | 3/0 | 17,02 | 0,670 | SP-3/0 |

| Number of cores x conductor cross-section | | Overall diameter | | Type designation |
|---|-------------|---------------------|--------|---------------------|
| mm ² | AWG/ MCM | mm | Inches | |
| 1 x 0,96 | 18 | 3,68 | 0,145 | SP2KV-18 |
| 1 x 1,23 | 16 | 3,81 | 0,150 | SP2KV-16 |
| 1 x 1,94 | 14 | 4,19 | 0,165 | SP2KV-14 |
| 1 x 3,08 | 12 | 4,57 | 0,180 | SP2KV-12 |
| 1 x 5,53 | 10 | 5,46 | 0,215 | SP2KV-10 |
| 1 x 7,57 | 8 | 6,48 | 0,255 | SP2KV-8 |
| 1 x 12,5 | 6 | 8,00 | 0,315 | SP2KV-6 |
| 1 x 18,6 | 5 | 9,02 | 0,355 | SP2KV-5 |
| 1 x 21,5 | 4 | 9,53 | 0,375 | SP2KV-4 |
| 1 x 25,6 | 3 | 10,16 | 0,400 | SP2KV-3 |
| 1 x 30,7 | 2 | 10,92 | 0,430 | SP2KV-2 |
| 1 x 46,0 | 1 | 13,08 | 0,515 | SP2KV-1 |
| 1 x 56,3 | 1/0 | 14,48 | 0,570 | SP2KV-1/0 |
| 1 x 66,5 | 2/0 | 14,86 | 0,585 | SP2KV-2/0 |
| 1 x 92,1 | 3/0 | 17,53 | 0,690 | SP2KV-3/0 |

Application/Limitation

The cable may be installed and sized according to IEC 60092-352, except for the 1 conditions listed below.

1. Cable ends with flexible rope stranded conductors are to be terminated using approved pressurised terminals suitable for these conductors.



Cert. No.: E-8794

File No.: 827.10

The requirements of SOLAS Amendments 1981 Chapter II-1, Part D, Reg. 45, 5.2 (provision to be taken to limit Fire Propagation along Bunches of Cables or Wires) are fulfilled without any additional measures.

Type Approval documentation

Data sheets and drawings
Test reports

Tests carried out

Test according to IEEE 45 (1993) Draft, IEEE 45 (1998), IEEE 1580 (2001) and IEC 60332-3 cat. A.

Marking of product

Draka 32 BOSTRIG-125 Type P - Type designation - Size of conductors - Voltage.

Certificate retention survey

The scope of the retention/renewal survey is to verify that the conditions stipulated for the Type approval is complied with and that no alterations are made to the product design or choice of materials.

The main elements of the survey are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Production Sample Tests (PST) and Routines (RT) checked (if not available tests according to PST and RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Survey to be performed at least every second year.

END OF CERTIFICATE