



# DET NORSKE VERITAS

## TYPE APPROVAL CERTIFICATE

**CERTIFICATE NO. E-8792**  
This Certificate consists of 5 pages

*This is to certify that the*  
**Electric Cable, Power Current**  
*with type designation(s)*  
**BOSTRIG-125 Type P, DPN, TPN, QPN and C..PN, BOSTRIG-125 Type P, SP2KV(HD)**

*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*  
Power, Lighting and Control

Type	Voltage class (kV)	Temp. class (°C)
BOSTRIG-125 Type P, DPN, TPN, QPN and C..PN	0,6/1	95
BOSTRIG-125 Type P, SP2KV(HD)	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-8792

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

Filler:

Flame Retardant, non hygroscopic (as needed)

Outer sheath:

SP1 (type N)

Number of cores x conductor cross-section		Overall diameter		Type designation	Number of cores x conductor cross-section		Overall diameter		Type designation
mm <sup>2</sup>	AWG/MCM	mm	Inches		mm <sup>2</sup>	AWG/MCM	mm	Inches	
1 x 112,6	4/0	20,83	0,820	SP2KV(HD)-4/0					
1 x 133,0	262	22,10	0,870	SP2KV(HD)-262	3 x 7,57	8	15,88	0,625	TPN-8
1 x 158,6	313	23,75	0,935	SP2KV(HD)-313	3 x 12,5	6	19,05	0,750	TPN-6
1 x 189,3	373	25,53	1,005	SP2KV(HD)-373	3 x 18,6	5	22,61	0,890	TPN-5
1 x 225,1	444	27,31	1,075	SP2KV(HD)-444	3 x 21,5	4	23,50	0,925	TPN-4
1 x 271,2	535	30,35	1,195	SP2KV(HD)-535	3 x 25,6	3	24,77	0,975	TPN-3
1 x 327,5	646	32,89	1,295	SP2KV(HD)-646	3 x 30,7	2	26,54	1,045	TPN-2
1 x 393,8	777	35,18	1,385	SP2KV(HD)-777	3 x 46,0	1	31,12	1,225	TPN-1
1 x 562,8	1111	40,51	1,595	SP2KV(HD)-1111	3 x 56,3	1/0	34,04	1,340	TPN-1/0
					3 x 66,5	2/0	36,58	1,440	TPN-2/0
2 x 7,57	8	14,99	0,590	DPN-8	3 x 92,1	3/0	42,29	1,665	TPN-3/0
2 x 12,5	6	17,91	0,705	DPN-6	3 x 112,6	4/0	45,72	1,800	TPN-4/0
2 x 18,6	5	20,57	0,810	DPN-5	3 x 133,0	262	49,53	1,950	TPN-262
2 x 21,5	4	22,10	0,870	DPN-4	3 x 158,6	313	53,21	2,095	TPN-313
2 x 25,6	3	23,37	0,920	DPN-3	3 x 189,3	373	57,02	2,245	TPN-373
2 x 30,7	2	25,02	0,985	DPN-2	3 x 225,1	444	61,60	2,425	TPN-444
2 x 46,0	1	29,21	1,150	DPN-1	3 x 271,2	535	67,56	2,660	TPN-535
2 x 56,3	1/0	32,00	1,260	DPN-1/0	3 x 327,5	646	73,79	2,905	TPN-646
2 x 66,5	2/0	33,53	1,320	DPN-2/0	3 x 393,8	777	78,61	3,095	TPN-777
2 x 92,1	3/0	39,62	1,560	DPN-3/0					
2 x 112,6	4/0	42,16	1,660	DPN-4/0	4 x 7,57	8	17,53	0,690	FPN-8
2 x 133,0	262	46,48	1,830	DPN-262	4 x 12,5	6	20,83	0,820	FPN-6
2 x 158,6	313	49,91	1,965	DPN-313	4 x 18,6	5	24,89	0,980	FPN-5
2 x 189,3	373	53,47	2,105	DPN-373	4 x 21,5	4	25,91	1,020	FPN-4
2 x 225,1	444	57,02	2,245	DPN-444	4 x 25,6	3	27,43	1,080	FPN-3
2 x 271,2	535	63,37	2,495	DPN-535	4 x 30,7	2	29,46	1,160	FPN-2
2 x 327,5	646	68,45	2,695	DPN-646	4 x 46,0	1	34,54	1,360	FPN-1
2 x 393,8	777	73,66	2,900	DPN-777	4 x 56,3	1/0	38,35	1,510	FPN-1/0



Cert. No.: E-8792

File No.: 827.10

Number of cores x conductor cross-section		Overall diameter		Type designation
mm <sup>2</sup>	AWG/MCM	mm	Inches	
4 x 66,5	2/0	40,39	1,590	FPN-2/0
4 x 92,1	3/0	47,63	1,875	FPN-3/0
4 x 112,6	4/0	50,67	1,995	FPN-4/0
4 x 133,0	262	54,99	2,165	FPN-262
4 x 158,6	313	59,82	2,355	FPN-313
4 x 189,3	373	64,14	2,525	FPN-373
4 x 225,1	444	68,45	2,695	FPN-444
4 x 271,2	535	75,95	2,990	FPN-535
4 x 327,5	646	82,04	3,230	FPN-646
4 x 393,8	777	87,50	3,445	FPN-777
5 x 7,57	8	19,30	0,760	QPN-8
5 x 12,5	6	24,26	0,955	QPN-6
5 x 18,6	5	27,43	1,080	QPN-5
5 x 21,5	4	28,58	1,125	QPN-4
5 x 25,6	3	30,35	1,195	QPN-3
5 x 30,7	2	32,51	1,280	QPN-2
5 x 46,0	1	39,75	1,565	QPN-1
5 x 56,3	1/0	43,56	1,715	QPN-1/0
5 x 66,5	2/0	45,47	1,790	QPN-2/0
5 x 92,1	3/0	52,71	2,075	QPN-3/0
5 x 112,6	4/0	56,13	2,210	QPN-4/0
7 x 7,57	8	22,23	0,875	7PN-8
4 x 3,08	12	19,94	0,785	[FP-12/C(OS)14P-4]N-8
4 x 1,94	14	shielded		
4 x 7,57	8	25,15	0,990	[FP-8/C(OS)14P-4]N-8
4 x 1,94	14	shielded		
4 x 21,5	4	31,24	1,230	[FP-4/C(OS)14P-4]N-8
4 x 1,94	14	shielded		
4 x 30,7	2	34,04	1,340	[FP-2/C(OS)14P-4]N-8
4 x 1,94	14	shielded		
4 x 46,0	1	40,13	1,580	[FP-1/C(OS)14P-4]N-8
4 x 1,94	14	shielded		
2 x 18,6	5	41,66	1,640	[DP-2/FP-8/C14P-26/TP(I/S)14P-3]N-38
4 x 7,57	8			
26 x 1,94	14			
3 x 2 x 1,94	14	shielded		
7 x 6,0	9	36,32	1,430	[C9P-7/C13P-7/C15P-12]N-26
7 x 2,5	13			
12 x 1,5	15			
2 x 0,96	18	8,64	0,340	C18PN-2
3 x 0,96	18	9,14	0,360	C18PN-3
4 x 0,96	18	9,91	0,390	C18PN-4
5 x 0,96	18	10,80	0,425	C18PN-5
6 x 0,96	18	11,68	0,460	C18PN-6
7 x 0,96	18	11,68	0,460	C18PN-7
8 x 0,96	18	12,45	0,490	C18PN-8
10 x 0,96	18	14,48	0,570	C18PN-10

Number of cores x conductor cross-section		Overall diameter		Type designation
mm <sup>2</sup>	AWG/MCM	mm	Inches	
12 x 0,96	18	14,86	0,585	C18PN-12
16 x 0,96	18	16,76	0,660	C18PN-16
20 x 0,96	18	18,16	0,715	C18PN-20
24 x 0,96	18	20,07	0,790	C18PN-24
30 x 0,96	18	22,23	0,875	C18PN-30
37 x 0,96	18	23,88	0,940	C18PN-37
44 x 0,96	18	26,80	1,055	C18PN-44
45 x 0,96	18	26,80	1,055	C18PN-45
60 x 0,96	18	29,59	1,165	C18PN-60
91 x 0,96	18	35,31	1,390	C18PN-91
2 x 1,23	16	9,02	0,355	C16PN-2
3 x 1,23	16	9,40	0,370	C16PN-3
4 x 1,23	16	10,16	0,400	C16PN-4
5 x 1,23	16	11,18	0,440	C16PN-5
6 x 1,23	16	12,07	0,475	C16PN-6
7 x 1,23	16	12,07	0,475	C16PN-7
8 x 1,23	16	13,72	0,540	C16PN-8
10 x 1,23	16	15,11	0,595	C16PN-10
12 x 1,23	16	15,49	0,610	C16PN-12
16 x 1,23	16	17,15	0,675	C16PN-16
18 x 1,23	16	18,03	0,710	C16PN-18
20 x 1,23	16	18,92	0,745	C16PN-20
22 x 1,23	16	19,94	0,785	C16PN-22
24 x 1,23	16	21,34	0,840	C16PN-24
30 x 1,23	16	23,24	0,915	C16PN-30
37 x 1,23	16	25,02	0,985	C16PN-37
44 x 1,23	16	27,94	1,100	C16PN-44
60 x 1,23	16	30,99	1,220	C16PN-60
91 x 1,23	16	37,59	1,480	C16PN-91
2 x 1,94	14	9,65	0,380	C14PN-2 or DPN-14
3 x 1,94	14	9,91	0,390	C14PN-3 or TPN-14
4 x 1,94	14	10,92	0,430	C14PN-4 or FPN-14
5 x 1,94	14	12,07	0,475	C14PN-5 or QPN-14
6 x 1,94	14	13,08	0,515	C14PN-6
7 x 1,94	14	13,08	0,515	C14PN-7
8 x 1,94	14	14,22	0,560	C14PN-8
10 x 1,94	14	16,51	0,650	C14PN-10
12 x 1,94	14	17,02	0,670	C14PN-12
14 x 1,94	14	17,91	0,705	C14PN-14
16 x 1,94	14	18,80	0,740	C14PN-16
19 x 1,94	14	19,81	0,780	C14PN-19
20 x 1,94	14	20,83	0,820	C14PN-20
24 x 1,94	14	24,13	0,950	C14PN-24
30 x 1,94	14	25,53	1,005	C14PN-30
37 x 1,94	14	27,43	1,080	C14PN-37
44 x 1,94	14	30,86	1,215	C14PN-44
60 x 1,94	14	34,16	1,345	C14PN-60
91 x 1,94	14	41,91	1,650	C14PN-91
2 x 3,08	12	10,80	0,425	C12PN-2 or DPN-12
3 x 3,08	12	11,18	0,440	C12PN-3 or TPN-12

