



# DET NORSKE VERITAS

## TYPE APPROVAL CERTIFICATE

**CERTIFICATE NO. E-8798**

This Certificate consists of 6 pages

*This is to certify that the*  
**Electric Cable, Power Current**  
*with type designation(s)*  
**BOSTRIG-125 Type P, Mud resistant, ...PM-**

*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*  
Instrumentation and communication. Mud resistant.

Voltage class (kV)	0,6/1
Temp. class (°C)	95

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

*Marit Laumann*  
Marit Laumann  
Head of Section



*Local Office*  
DNV New York

*This Certificate is valid until*  
2011-12-31

*Ivar Bull*  
Ivar Bull  
Surveyor *HB*

**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-8798

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)

Shield: Individual shield (I/S) and/or overall shield (OS)

Aluminium mylar with a drain wire

Tinned copper wire braid

Filler: Flame Retardant, non hygroscopic (as needed)

Outer sheath: Crosslinked Polyolefin SHF 2, Type (M)

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	mm	Inches		mm <sup>2</sup>	AWG	mm	Inches	
1 x 2 x 0,61	20	8,38	0,330	TP(OS)20PM-1	12 x 2 x 0,96	18	25,65	1,010	TP(I/S)18PM-12
2 x 2 x 0,61	20	12,57	0,495	TP(I/S)20PM-2	14 x 2 x 0,96	18	27,05	1,065	TP(I/S)18PM-14
3 x 2 x 0,61	20	13,21	0,520	TP(I/S)20PM-3	16 x 2 x 0,96	18	29,34	1,155	TP(I/S)18PM-16
4 x 2 x 0,61	20	14,61	0,575	TP(I/S)20PM-4	20 x 2 x 0,96	18	31,37	1,235	TP(I/S)18PM-20
5 x 2 x 0,61	20	16,38	0,645	TP(I/S)20PM-5	24 x 2 x 0,96	18	36,20	1,425	TP(I/S)18PM-24
6 x 2 x 0,61	20	17,65	0,695	TP(I/S)20PM-6					
7 x 2 x 0,61	20	17,65	0,695	TP(I/S)20PM-7	1 x 2 x 1,23	16	8,89	0,350	TP(OS)16PM-1
8 x 2 x 0,61	20	19,18	0,755	TP(I/S)20PM-8	2 x 2 x 1,23	16	14,22	0,560	TP(I/S)16PM-2
10 x 2 x 0,61	20	22,73	0,895	TP(I/S)20PM-10	3 x 2 x 1,23	16	15,49	0,610	TP(I/S)16PM-3
12 x 2 x 0,61	20	23,37	0,920	TP(I/S)20PM-12	4 x 2 x 1,23	16	16,89	0,665	TP(I/S)16PM-4
16 x 2 x 0,61	20	26,04	1,025	TP(I/S)20PM-16	5 x 2 x 1,23	16	18,54	0,730	TP(I/S)16PM-5
19 x 2 x 0,61	20	27,56	1,085	TP(I/S)20PM-19	6 x 2 x 1,23	16	20,32	0,800	TP(I/S)16PM-6
20 x 2 x 0,61	20	28,58	1,125	TP(I/S)20PM-20	7 x 2 x 1,23	16	20,32	0,800	TP(I/S)16PM-7
24 x 2 x 0,61	20	32,00	1,260	TP(I/S)20PM-24	8 x 2 x 1,23	16	23,88	0,940	TP(I/S)16PM-8
25 x 2 x 0,61	20	33,02	1,300	TP(I/S)20PM-25	10 x 2 x 1,23	16	25,53	1,005	TP(I/S)16PM-10
					12 x 2 x 1,23	16	26,92	1,060	TP(I/S)16PM-12
1 x 2 x 0,96	18	8,89	0,350	TP(OS)18PM-1	15 x 2 x 1,23	16	29,46	1,160	TP(I/S)16PM-15
2 x 2 x 0,96	18	13,97	0,550	TP(I/S)18PM-2	16 x 2 x 1,23	16	29,97	1,180	TP(I/S)16PM-16
3 x 2 x 0,96	18	14,22	0,560	TP(I/S)18PM-3	20 x 2 x 1,23	16	33,02	1,300	TP(I/S)16PM-20
4 x 2 x 0,96	18	15,49	0,610	TP(I/S)18PM-4	22 x 2 x 1,23	16	35,31	1,390	TP(I/S)16PM-22
5 x 2 x 0,96	18	17,27	0,680	TP(I/S)18PM-5	24 x 2 x 1,23	16	38,48	1,515	TP(I/S)16PM-24
6 x 2 x 0,96	18	18,80	0,740	TP(I/S)18PM-6					
7 x 2 x 0,96	18	18,80	0,740	TP(I/S)18PM-7	1 x 2 x 1,94	14	10,03	0,395	TP(OS)14PM-1
8 x 2 x 0,96	18	23,11	0,910	TP(I/S)18PM-8	2 x 2 x 1,94	14	15,88	0,625	TP(I/S)14PM-2
10 x 2 x 0,96	18	24,89	0,980	TP(I/S)18PM-10	3 x 2 x 1,94	14	17,15	0,675	TP(I/S)14PM-3



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Number of cores x conductor cross-section		Overall diameter		Type designation
mm <sup>2</sup>	AWG	mm	Inches	
4 x 2 x 1,94	14	18,54	0,730	TP(I/S)14PM-4
5 x 2 x 1,94	14	20,45	0,805	TP(I/S)14PM-5
6 x 2 x 1,94	14	23,24	0,915	TP(I/S)14PM-6
7 x 2 x 1,94	14	23,24	0,915	TP(I/S)14PM-7
8 x 2 x 1,94	14	25,15	0,990	TP(I/S)14PM-8
10 x 2 x 1,94	14	27,05	1,065	TP(I/S)14PM-10
12 x 2 x 1,94	14	29,46	1,160	TP(I/S)14PM-12
16 x 2 x 1,94	14	32,89	1,295	TP(I/S)14PM-16
20 x 2 x 1,94	14	37,72	1,485	TP(I/S)14PM-20
24 x 2 x 1,94	14	42,29	1,665	TP(I/S)14PM-24
1 x 3 x 0,96	18	9,14	0,360	TT(OS)18PM-1
2 x 3 x 0,96	18	15,24	0,600	TT(I/S)18PM-2
3 x 3 x 0,96	18	16,13	0,635	TT(I/S)18PM-3
4 x 3 x 0,96	18	17,78	0,700	TT(I/S)18PM-4
5 x 3 x 0,96	18	19,56	0,770	TT(I/S)18PM-5
6 x 3 x 0,96	18	22,23	0,875	TT(I/S)18PM-6
7 x 3 x 0,96	18	22,23	0,875	TT(I/S)18PM-7
8 x 3 x 0,96	18	24,13	0,950	TT(I/S)18PM-8
12 x 3 x 0,96	18	29,21	1,150	TT(I/S)18PM-12
16 x 3 x 0,96	18	32,64	1,285	TT(I/S)18PM-16
1 x 3 x 1,23	16	9,40	0,370	TT(OS)16PM-1
2 x 3 x 1,23	16	15,88	0,625	TT(I/S)16PM-2
3 x 3 x 1,23	16	16,89	0,665	TT(I/S)16PM-3
4 x 3 x 1,23	16	18,67	0,735	TT(I/S)16PM-4
5 x 3 x 1,23	16	20,57	0,810	TT(I/S)16PM-5
6 x 3 x 1,23	16	22,99	0,905	TT(I/S)16PM-6
8 x 3 x 1,23	16	26,92	1,060	TT(I/S)16PM-8
12 x 3 x 1,23	16	30,73	1,210	TT(I/S)16PM-12
16 x 3 x 1,23	16	34,42	1,355	TT(I/S)16PM-16
2 x 2 x 0,61	20	13,72	0,540	TP(I/S-OS)20PM-2
3 x 2 x 0,61	20	13,97	0,550	TP(I/S-OS)20PM-3
4 x 2 x 0,61	20	15,24	0,600	TP(I/S-OS)20PM-4
5 x 2 x 0,61	20	16,51	0,650	TP(I/S-OS)20PM-5
6 x 2 x 0,61	20	17,78	0,700	TP(I/S-OS)20PM-6
7 x 2 x 0,61	20	17,78	0,700	TP(I/S-OS)20PM-7
8 x 2 x 0,61	20	19,30	0,760	TP(I/S-OS)20PM-8
10 x 2 x 0,61	20	22,86	0,900	TP(I/S-OS)20PM-10
12 x 2 x 0,61	20	23,50	0,925	TP(I/S-OS)20PM-12
16 x 2 x 0,61	20	26,16	1,030	TP(I/S-OS)20PM-16
20 x 2 x 0,61	20	28,70	1,130	TP(I/S-OS)20PM-20
24 x 2 x 0,61	20	32,13	1,265	TP(I/S-OS)20PM-24
2 x 2 x 0,96	18	15,37	0,605	TP(I/S-OS)18PM-2
3 x 2 x 0,96	18	16,13	0,635	TP(I/S-OS)18PM-3
4 x 2 x 0,96	18	17,15	0,675	TP(I/S-OS)18PM-4
5 x 2 x 0,96	18	18,03	0,710	TP(I/S-OS)18PM-5
6 x 2 x 0,96	18	19,43	0,765	TP(I/S-OS)18PM-6
7 x 2 x 0,96	18	20,32	0,800	TP(I/S-OS)18PM-7
8 x 2 x 0,96	18	24,38	0,960	TP(I/S-OS)18PM-8
10 x 2 x 0,96	18	26,04	1,025	TP(I/S-OS)18PM-10
12 x 2 x 0,96	18	26,54	1,045	TP(I/S-OS)18PM-12
14 x 2 x 0,96	18	27,94	1,100	TP(I/S-OS)18PM-14

Number of cores x conductor cross-section		Overall diameter		Type designation
mm <sup>2</sup>	AWG	mm	Inches	
16 x 2 x 0,96	18	29,46	1,160	TP(I/S-OS)18PM-16
20 x 2 x 0,96	18	31,50	1,240	TP(I/S-OS)18PM-20
24 x 2 x 0,96	18	36,83	1,450	TP(I/S-OS)18PM-24
2 x 2 x 1,23	16	15,75	0,620	TP(I/S-OS)16PM-2
3 x 2 x 1,23	16	16,89	0,665	TP(I/S-OS)16PM-3
4 x 2 x 1,23	16	17,65	0,695	TP(I/S-OS)16PM-4
5 x 2 x 1,23	16	18,80	0,740	TP(I/S-OS)16PM-5
6 x 2 x 1,23	16	20,45	0,805	TP(I/S-OS)16PM-6
7 x 2 x 1,23	16	20,45	0,805	TP(I/S-OS)16PM-7
8 x 2 x 1,23	16	25,02	0,985	TP(I/S-OS)16PM-8
10 x 2 x 1,23	16	25,65	1,010	TP(I/S-OS)16PM-10
12 x 2 x 1,23	16	27,05	1,065	TP(I/S-OS)16PM-12
16 x 2 x 1,23	16	30,10	1,185	TP(I/S-OS)16PM-16
20 x 2 x 1,23	16	33,15	1,305	TP(I/S-OS)16PM-20
24 x 2 x 1,23	16	38,61	1,520	TP(I/S-OS)16PM-24
2 x 2 x 1,94	14	16,26	0,640	TP(I/S-OS)14PM-2
3 x 2 x 1,94	14	17,27	0,680	TP(I/S-OS)14PM-3
4 x 2 x 1,94	14	19,05	0,750	TP(I/S-OS)14PM-4
5 x 2 x 1,94	14	20,57	0,810	TP(I/S-OS)14PM-5
6 x 2 x 1,94	14	23,37	0,920	TP(I/S-OS)14PM-6
7 x 2 x 1,94	14	23,37	0,920	TP(I/S-OS)14PM-7
8 x 2 x 1,94	14	25,27	0,995	TP(I/S-OS)14PM-8
10 x 2 x 1,94	14	27,18	1,070	TP(I/S-OS)14PM-10
12 x 2 x 1,94	14	29,59	1,165	TP(I/S-OS)14PM-12
16 x 2 x 1,94	14	33,02	1,300	TP(I/S-OS)14PM-16
20 x 2 x 1,94	14	37,85	1,490	TP(I/S-OS)14PM-20
24 x 2 x 1,94	14	42,42	1,670	TP(I/S-OS)14PM-24
14 x 2 x 1,00	18	39,37	1,550	TP(I/S-OBS)18PM-14
2 x 3 x 0,96	18	15,37	0,605	TT(I/S-OS)18PM-2
3 x 3 x 0,96	18	16,26	0,640	TT(I/S-OS)18PM-3
4 x 3 x 0,96	18	17,91	0,705	TT(I/S-OS)18PM-4
5 x 3 x 0,96	18	19,69	0,775	TT(I/S-OS)18PM-5
6 x 3 x 0,96	18	22,35	0,880	TT(I/S-OS)18PM-6
7 x 3 x 0,96	18	22,35	0,880	TT(I/S-OS)18PM-7
8 x 3 x 0,96	18	24,26	0,955	TT(I/S-OS)18PM-8
12 x 3 x 0,96	18	29,34	1,155	TT(I/S-OS)18PM-12
16 x 3 x 0,96	18	32,77	1,290	TT(I/S-OS)18PM-16
2 x 3 x 1,23	16	16,00	0,630	TT(I/S-OS)16PM-2
3 x 3 x 1,23	16	17,02	0,670	TT(I/S-OS)16PM-3
4 x 3 x 1,23	16	18,80	0,740	TT(I/S-OS)16PM-4
5 x 3 x 1,23	16	20,70	0,815	TT(I/S-OS)16PM-5
6 x 3 x 1,23	16	23,11	0,910	TT(I/S-OS)16PM-6
8 x 3 x 1,23	16	25,65	1,010	TT(I/S-OS)16PM-8
12 x 3 x 1,23	16	30,86	1,215	TT(I/S-OS)16PM-12
16 x 3 x 1,23	16	34,54	1,360	TT(I/S-OS)16PM-16
2 x 2 x 0,61	20	12,45	0,490	TP(OS)20PM-2
3 x 2 x 0,61	20	12,70	0,500	TP(OS)20PM-3
4 x 2 x 0,61	20	13,59	0,535	TP(OS)20PM-4

