



DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. E-8260

This Certificate consists of 9 pages

This is to certify that the

High Voltage Cable

with type designation(s)

**BOSTRIG MHV-5 1,8/3 kV, BOSTRIG MHV-8 3,6/6 kV,
BOSTRIG MHV-8 6/10 kV, BOSTRIG MHV-15 8,7/15 kV,
BOSTRIG MHV-15 12/20 kV**

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

IEC 60092-354 (2003-06)

IEC 60502

IEC 60332-3-22 (2000-10)

Application

Type	Voltage (kV)	Temp. class (°C)
BOSTRIG MHV-5 1,8/3 kV	1,8/3	90
BOSTRIG MHV-8 3,6/6 kV	3,6/6	90
BOSTRIG MHV-8 6/10 kV	6/10	90
BOSTRIG MHV-15 8,7/15 kV	8,7/15	90
BOSTRIG MHV-15 12/20 kV	12/20	90

Place and date

Høvik, 2007-02-15

for DET NORSKE VERITAS AS

Frode Berntsen
Head of Section



Local Office
DNV New York

This Certificate is valid until

2010-12-31

Erik Hoffmann
Surveyor

Notice: This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.

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-8260
File No.: 827.30

Name and place of manufacturer

Draka Cableteq USA
North Dighton
MA 02764
USA

Product description

BOSTRIG MHV-5 1,8/3 kV
BOSTRIG MHV-8 3,6/6 kV
BOSTRIG MHV-8 6/10 kV
BOSTRIG MHV-15 8,7/15 kV
BOSTRIG MHV-15 12/20 kV

Construction:
Conductors: Tinned, rope stranded copper
Core insulation: EPR
Screening: Tinned copper wire braid
Outer sheath: SE1

BOSTRIG MHV-5 1,8/3 kV

mm ²	AWG/MCM	BIW Cable Type Designation	IEEE Cable Type Designation	Overall Diameter mm	Overall Diameter Inches
1 x 7,57	8	MHV-5-8	SEN5KV-8	16,76	0,660
1 x 12,5	6	MHV-5-6	SEN5KV-6	18,29	0,720
1 x 18,6	5	MHV-5-5	SEN5KV-5	19,05	0,750
1 x 21,5	4	MHV-5-4	SEN5KV-4	20,07	0,790
1 x 30,7	2	MHV-5-2	SEN5KV-2	21,59	0,850
1 x 46,0	1	MHV-5-1	SEN5KV-1	24,13	0,950
1 x 56,3	1/0	MHV-5-1/0	SEN5KV-1/0	25,40	1,000
1 x 66,5	2/0	MHV-5-2/0	SEN5KV-2/0	25,91	1,020
1 x 92,1	3/0	MHV-5-3/0	SEN5KV-3/0	28,70	1,130
1 x 112,6	4/0	MHV-5-4/0	SEN5KV-4/0	29,72	1,170
1 x 133,0	262	MHV-5-262	SEN5KV-262	30,99	1,220
1 x 158,6	313	MHV-5-313	SEN5KV-313	33,27	1,310
1 x 189,3	373	MHV-5-373	SEN5KV-373	35,05	1,380
1 x 225,1	444	MHV-5-444	SEN5KV-444	37,08	1,460
1 x 271,2	535	MHV-5-535	SEN5KV-535	39,62	1,560
1 x 327,5	646	MHV-5-646	SEN5KV-646	42,67	1,680
1 x 393,8	777	MHV-5-777	SEN5KV-777	45,72	1,800
1 x 562,8	1111	MHV-5-1111	SEN5KV-1111	52,32	2,060
3 x 7,57	8	MHV3-5-8	TEN5KV-8	33,02	1,300



Cert. No.: E-8260

File No.: 827.30

		BIW Cable Type Designation	IEEE Cable Type Designation	Overall Diameter	Overall Diameter
mm ²	AWG/MCM			mm	Inches
3 x 12,5	6	MHV3-5-6	TEN5KV-6	36,32	1,430
3 x 18,6	5	MHV3-5-5	TEN5KV-5	38,35	1,510
3 x 21,5	4	MHV3-5-4	TEN5KV-4	40,13	1,580
3 x 30,7	2	MHV3-5-2	TEN5KV-2	44,45	1,750
3 x 46,0	1	MHV3-5-1	TEN5KV-1	47,75	1,880
3 x 56,3	1/0	MHV3-5-1/0	TEN5KV-1/0	50,55	1,990
3 x 66,5	2/0	MHV3-5-2/0	TEN5KV-2/0	51,56	2,030
3 x 92,1	3/0	MHV3-5-3/0	TEN5KV-3/0	57,91	2,280
3 x 112,6	4/0	MHV3-5-4/0	TEN5KV-4/0	60,96	2,400
3 x 133,0	262	MHV3-5-262	TEN5KV-262	64,01	2,520
3 x 158,6	313	MHV3-5-313	TEN5KV-313	69,09	2,720
3 x 189,3	373	MHV3-5-373	TEN5KV-373	73,15	2,880
3 x 225,1	444	MHV3-5-444	TEN5KV-444	77,22	3,040
3 x 271,2	535	MHV3-5-535	TEN5KV-535	82,55	3,250
3 x 327,5	646	MHV3-5-646	TEN5KV-646	89,41	3,520
3 x 393,8	777	MHV3-5-777	TEN5KV-777	94,74	3,730
3 x 562,8	1111	MHV3-5-1111	TEN5KV-1111	109,73	4,320
4 x 7,57	8	MHV4-5-8	FEN5KV-8	36,83	1,450
4 x 12,5	6	MHV4-5-6	FEN5KV-6	40,64	1,600
4 x 18,6	5	MHV4-5-5	FEN5KV-5	43,18	1,700
4 x 21,5	4	MHV4-5-4	FEN5KV-4	45,72	1,800
4 x 30,7	2	MHV4-5-2	FEN5KV-2	49,28	1,940
4 x 46,0	1	MHV4-5-1	FEN5KV-1	53,34	2,100
4 x 56,3	1/0	MHV4-5-1/0	FEN5KV-1/0	56,64	2,230
4 x 66,5	2/0	MHV4-5-2/0	FEN5KV-2/0	57,40	2,260
4 x 92,1	3/0	MHV4-5-3/0	FEN5KV-3/0	65,02	2,560
4 x 112,6	4/0	MHV4-5-4/0	FEN5KV-4/0	68,33	2,690
4 x 133,0	262	MHV4-5-262	FEN5KV-262	72,14	2,840
4 x 158,6	313	MHV4-5-313	FEN5KV-313	77,72	3,060
4 x 189,3	373	MHV4-5-373	FEN5KV-373	82,30	3,240
4 x 225,1	444	MHV4-5-444	FEN5KV-444	86,87	3,420
4 x 271,2	535	MHV4-5-535	FEN5KV-535	92,96	3,660
4 x 327,5	646	MHV4-5-646	FEN5KV-646	100,58	3,960
4 x 393,8	777	MHV4-5-777	FEN5KV-777	106,68	4,200
4 x 562,8	1111	MHV4-5-1111	FEN5KV-1111	123,70	4,870

BOSTRIG MHV-8 3,6/6 kV

		BIW Cable Type Designation	Overall Diameter	Overall Diameter
mm ²	AWG/MCM		mm	Inches
1 x 12,5	6	MHV-8-6	19,56	0,770
1 x 18,6	5	MHV-8-5	20,57	0,810



Cert. No.: E-8260
File No.: 827.30

		BIW Cable Type Designation	Overall Diameter	Overall Diameter
mm ²	AWG/MCM		mm	Inches
1 x 21,5	4	MHV-8-4	21,08	0,830
1 x 30,7	2	MHV-8-2	23,62	0,930
1 x 46,0	1	MHV-8-1	25,15	0,990
1 x 56,3	1/0	MHV-8-1/0	26,67	1,050
1 x 66,5	2/0	MHV-8-2/0	26,92	1,060
1 x 92,1	3/0	MHV-8-3/0	29,72	1,170
1 x 112,6	4/0	MHV-8-4/0	30,99	1,220
1 x 133,0	262	MHV-8-262	32,26	1,270
1 x 158,6	313	MHV-8-313	34,54	1,360
1 x 189,3	373	MHV-8-373	36,58	1,440
1 x 225,1	444	MHV-8-444	38,10	1,500
1 x 271,2	535	MHV-8-535	40,64	1,600
1 x 327,5	646	MHV-8-646	44,20	1,740
1 x 393,8	777	MHV-8-777	46,74	1,840
1 x 562,8	1111	MHV-8-1111	53,09	2,090
3 x 12,5	6	MHV3-8-6	39,88	1,570
3 x 18,6	5	MHV3-8-5	41,91	1,650
3 x 21,5	4	MHV3-8-4	43,43	1,710
3 x 30,7	2	MHV3-8-2	47,50	1,870
3 x 46,0	1	MHV3-8-1	50,80	2,000
3 x 56,3	1/0	MHV3-8-1/0	53,59	2,110
3 x 66,5	2/0	MHV3-8-2/0	54,61	2,150
3 x 92,1	3/0	MHV3-8-3/0	60,96	2,400
3 x 112,6	4/0	MHV3-8-4/0	63,75	2,510
3 x 133,0	262	MHV3-8-262	66,80	2,630
3 x 158,6	313	MHV3-8-313	71,88	2,830
3 x 189,3	373	MHV3-8-373	75,95	2,990
3 x 225,1	444	MHV3-8-444	80,01	3,150
3 x 271,2	535	MHV3-8-535	85,34	3,360
3 x 327,5	646	MHV3-8-646	91,19	3,590
3 x 393,8	777	MHV3-8-777	96,52	3,800
3 x 562,8	1111	MHV3-8-1111	111,76	4,400
4 x 12,5	6	MHV4-8-6	44,96	1,770
4 x 18,6	5	MHV4-8-5	47,50	1,870
4 x 21,5	4	MHV4-8-4	49,28	1,940
4 x 30,7	2	MHV4-8-2	52,58	2,070
4 x 46,0	1	MHV4-8-1	56,64	2,230
4 x 56,3	1/0	MHV4-8-1/0	60,20	2,370
4 x 66,5	2/0	MHV4-8-2/0	61,21	2,410
4 x 92,1	3/0	MHV4-8-3/0	68,33	2,690
4 x 112,6	4/0	MHV4-8-4/0	72,14	2,840
4 x 133,0	262	MHV4-8-262	75,18	2,960

