

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Cable Cleats**with type designation(s)
DSCS-A/S

Issued to

Dong-A Bestech Co., Ltd.
BUCHON, KYONGGI-DO, Korea

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft**Application :****For fixing of cables on board Mobile Offshore Units and Ships****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.****Material****Suitable for open deck**Issued at **Busan** on **2018-05-16**This Certificate is valid until **2022-12-31**.for **DNV GL**DNV GL local station: **Seoul**Approval Engineer: **Dong Ho Park**

Michael Jost Auf der Stroth
Head of Section

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.



Product description

Type :

DSCS-S.....For single cables

DSCS-A.....For trefoil cables

Material :	Composite - Body : SUS 316/316L - Pad : Halogen Free Polyester Elastomer(KGN 7142F)
Maximum TEMP :	105°C
Minimum TEMP :	- 40°C
Resistance to impact :	Very Heavy
Type of retention :	Lateral and axial retention
Resistance to electromechanical forces :	Withstanding one short circuit
Resistance to ultraviolet light :	Withstanding UV
Resistance to corrosion :	High
Contribution to fire :	Resistant

DSCS-S Type (Single formation)

No	Part No	Suitable Cable Dia(mm)	Dimension(mm)	
			H	W
1	DSCS-S2832	[Ø28~32]	69	56
2	DSCS-S3034	[Ø30~34]	71	58
3	DSCS-S3236	[Ø32~36]	73	60
4	DSCS-S3438	[Ø34~38]	74	63
5	DSCS-S3640	[Ø36~40]	74	65
6	DSCS-S3842	[Ø38~42]	76	66
7	DSCS-S4044	[Ø40~44]	79	68
8	DSCS-S4246	[Ø42~46]	81	71
9	DSCS-S4448	[Ø44~48]	82	73
10	DSCS-S4650	[Ø46~50]	84	75
11	DSCS-S4852	[Ø48~52]	86	77
12	DSCS-S5054	[Ø50~54]	87	79
13	DSCS-S5256	[Ø52~56]	88	80
14	DSCS-S5458	[Ø54~58]	90	81
15	DSCS-S5660	[Ø56~60]	91	83
16	DSCS-S5862	[Ø58~62]	93	84
17	DSCS-S6064	[Ø60~64]	95	85
18	DSCS-S6266	[Ø62~66]	96	87
19	DSCS-S6468	[Ø64~68]	98	88
20	DSCS-S6670	[Ø66~70]	100	91
21	DSCS-S6872	[Ø68~72]	101	94
22	DSCS-S7074	[Ø70~74]	103	95
23	DSCS-S7276	[Ø72~76]	105	101
24	DSCS-S7478	[Ø74~78]	107	104
25	DSCS-S7680	[Ø76~80]	109	105

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26	DSCS-S7882	[Ø78~82]	110	107
27	DSCS-S8084	[Ø80~84]	111	110
28	DSCS-S8286	[Ø82~86]	113	111
29	DSCS-S8488	[Ø84~88]	115	113
30	DSCS-S8690	[Ø86~90]	116	116
31	DSCS-S8892	[Ø88~92]	118	117
32	DSCS-S9094	[Ø90~94]	120	119
33	DSCS-S9296	[Ø92~96]	122	121
34	DSCS-S94106	[Ø94~106]	135	133
35	DSCS-S100112	[Ø100~112]	140	140
36	DSCS-S106118	[Ø106~118]	145	146
37	DSCS-S112124	[Ø112~124]	150	152
38	DSCS-S118130	[Ø118~130]	155	158
39	DSCS-S127139	[Ø127~139]	162	168
40	DSCS-S132144	[Ø132~144]	167	173
41	DSCS-S138150	[Ø138~150]	171	179

DSCS-A Type (Trefoil formation)

No	Part No	Suitable Cable Dia(mm)	Dimension(mm)	
			H	W
1	DSCS-A1723	[Ø17~23]	75	76
2	DSCS-A1925	[Ø19~25]	78	79.5
3	DSCS-A2329	[Ø23~29]	84	86
4	DSCS-A2531	[Ø25~31]	87	89
5	DSCS-A2733	[Ø27~33]	90	92
6	DSCS-A2935	[Ø29~35]	93	95.5
7	DSCS-A3238	[Ø32~38]	97.5	100
8	DSCS-A3541	[Ø35~41.5]	102	105
9	DSCS-A3844	[Ø38~44.5]	106	109.5
10	DSCS-A4248	[Ø42~48]	112	116
11	DSCS-A4551	[Ø45~51]	116.5	121
12	DSCS-A4753	[Ø47~53]	119.5	124
13	DSCS-A4955	[Ø49~55]	122.5	127.5
14	DSCS-A5157	[Ø51~57]	125.5	130.5
15	DSCS-A5359	[Ø53~59]	128.5	133.5
16	DSCS-A5561	[Ø55~61]	131.5	137
17	DSCS-A5763	[Ø57~63]	134.5	140
18	DSCS-A5965	[Ø59~65]	137	143.5
19	DSCS-A6167	[Ø61~67]	141.5	146.5
20	DSCS-A6369	[Ø63~69]	144.5	149.5
21	DSCS-A6571	[Ø65~71]	147.5	153
22	DSCS-A6773	[Ø67~73]	150.5	159.5
23	DSCS-A6975	[Ø69~75]	153.5	163.5

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24	DSCS-A7177	[Ø71~77]	156.5	167.5
25	DSCS-A7379	[Ø73~79]	159.5	171.5
26	DSCS-A7581	[Ø75~81]	163.5	175.5
27	DSCS-A7783	[Ø77~83]	167	179.5
28	DSCS-A7985	[Ø79~85]	170.5	184
29	DSCS-A8187	[Ø81~87]	174.5	188
30	DSCS-A8389	[Ø83~89]	178	192
31	DSCS-A8692	[Ø86~92]	184	198
32	DSCS-A8896	[Ø88~96]	193	206
33	DSCS-A9199	[Ø91~99]	198.5	212.5
34	DSCS-A96103	[Ø96~103]	206	220.5
35	DSCS-A99107	[Ø99~107]	213.5	229.5
36	DSCS-A103111	[Ø103~111]	221	237
37	DSCS-A107115	[Ø107~115]	228	245
38	DSCS-A111119	[Ø111~119]	235.5	253
39	DSCS-A115123	[Ø115~123]	243	261.5
40	DSCS-A119128	[Ø119~128]	252.5	271.5

Application/Limitation

For distance between cable cleats, Dong-A Bestech catalogue(Document no. C-1-17-1) or manufacturer instructions is to be followed.

Peak short-circuit current : 220 kA
Initial r.m.s sym. short-circuit current : 85 kA
Cable outside diameter at the test : 61 mm (DSCS-S5965)/ 42 mm (DSCS-A3844)

Type Approval documentation

Tests carried out

IEC 61914:2015

Marking of product

Manufacturer's name or logo or trademark, product identification

Periodical assessment

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

The main elements of the survey are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Check of the results from Production Sample Tests(PST) and Routine Tests(RT) (if not available, PSTand RT are to be carried out)
- Review of type approval documentation
- Review of possible changes in design, material and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.



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END OF CERTIFICATE