TYPE APPROVAL CERTIFICATE

Certificate No:
TAE00000JE
Revision No:
2

This is to certify:

That the Cable Cleats

with type designation(s)
Cyclone I, Cyclone II, Cyclone III, Solace, Themis, Helios, Sapphire, Huron, Reliance, Patriot, Sovereign, Conqueror, Saturn, Venus

Issued to
CMP Products Limited
Cramlington, Northumberland, United Kingdom

is found to comply with
DNV rules for classification – Ships, offshore units, and high speed and light craft

Application :

Products approved by this certificate are accepted for installation on all vessels classed by DNV.

Type	Material	Suitable for open deck
Cyclone I	Metallic	Yes
Cyclone II	Metallic	Yes
Cyclone III	Metallic	Yes
Solace	Metallic	Yes
Themis	Metallic	Yes
Helios	Metallic	Yes
Sapphire	Metallic	Yes
Huron	Metallic	Yes
Reliance	Metallic	Yes
Patriot	Metallic	Yes
Sovereign	Metallic	Yes
Conqueror	Metallic	Yes
Saturn	Metallic	Yes
Venus	Metallic	Yes

Issued at **Høvik** on **2021-09-08**

This Certificate is valid until **2026-03-19**.
DNV local station: **Newcastle-upon-Tyne**

Approval Engineer: **Ivar Bull**

for **DNV**

Digitally Signed By: Alonso Pontes, Marta
Location: DNV Høvik, Norway

Marta Alonso Pontes
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

Cyclone II and Cyclone III: Cable cleat for single, trefoil or quad formation.

Classification	**According to IEC 61914: 2015**
Material	Metallic (316L Stainless steel)
Max and min temperature	-50°C to +40°C
Resistance to impact	Very heavy
Resistance to electromechanical forces	Lateral and axial retention, withstanding more than one short circuit.
Needle flame test	120s
Resistance to UV light	Passed

Cyclone II Part No.	Cyclone III Part No.	Cable diameter (mm)		
		Single	Trefoil	Quad
2CYC024034	3CYC024034	36-50	24-34	21-29
2CYC030041	3CYC030041	45-60	30-41	26-35
2CYC037047	3CYC037047	55-69	37-47	32-40
2CYC043054	3CYC043054	64-80	43-54	37-46
2CYC050060	3CYC050060	75-88	50-60	43-51
2CYC056067	3CYC056067	83-99	56-67	49-57
2CYC063073	3CYC063073	94-108	63-73	55-62
2CYC069080	3CYC069080	103-118	69-80	60-68
2CYC072085	3CYC072085	114-150	72-85	66-72
2CYC082095	3CYC082095	145-165	82-95	70-81
2CYC092105	3CYC092105		92-105	70-81
2CYC102115	3CYC102115		102-115	88-98
2CYC112125	3CYC112125		112-125	96-107
2CYC122135	3CYC122135		122-135	105-116
2CYC132145	3CYC132145		132-145	113-124

Conqueror: Cable cleat for trefoil formation

Classification	**According to IEC 61914: 2015**
Material	Metallic (316L Stainless steel)
Max and min temperature	-50°C to +60°C
Resistance to impact	Very heavy
Resistance to electromechanical forces	Lateral and axial retention, withstanding more than one short circuit.
Needle flame test	120s
Resistance to UV light	Passed

Part No.	Cable diameter (mm)
RTSS019023	19-23
RTSS023032	23-32
RTSS030039	30-39
RTSS037046	37-46
RTSS044053	44-53
RTSS051060	51-60
RTSS058067	58-67

Part No.	Cable diameter (mm)
RTSS065074	65-74
RTSS072081	72-81
RTSS079088	79-88
RTSS086095	86-95
RTSS093102	93-102
RTSS100109	100-109
RTSS107116	107-116

Part No.	Cable diameter (mm)
RTSS114123	114-123

Part No.	Cable diameter (mm)
RTSS121130	121-130

Sovereign: Cable cleat for trefoil formation

Classification	**According to IEC 61914: 2015**
Material	Metallic (316L Stainless steel)
Max and min temperature	-50°C to +60°C
Resistance to impact	Very heavy
Resistance to electromechanical forces	Lateral and axial retention, withstanding more than one short circuit.
Needle flame test	120s
Resistance to UV light	Passed

Part No.	Cable diameter (mm)
HDSS017021	17-21
HDSS019023	19-23
HDSS023028	23-28
HDSS027032	27-32
HDSS030035	30-35
HDSS033038	33-38
HDSS036042	36-42
HDSS040046	40-46
HDSS044050	44-50
HDSS048055	48-55
HDSS051058	51-58
HDSS055062	55-62

Part No.	Cable diameter (mm)
HDSS059066	59-66
HDSS063070	63-70
HDSS067074	67-74
HDSS071078	71-78
HDSS074082	74-82
HDSS077085	77-85
HDSS082088	82-88
HDSS088096	88-96
HDSS096103	96-103
HDSS103111	103-111
HDSS111119	111-119
HDSS119128	119-128

Patriot: Cable cleat for trefoil formation

Classification	**According to IEC 61914: 2015**
Material	Metallic (316L Stainless steel)
Max and min temperature	-50°C to +60°C
Resistance to impact	Very heavy
Resistance to electromechanical forces	Lateral and axial retention, withstanding more than one short circuit.
Needle flame test	120s
Resistance to UV light	Passed

Part No.	Cable diameter (mm)
SDSS017021	17-21
SDSS019024	19-24
SDSS023028	23-28
SDSS027032	27-32
SDSS030035	30-35
SDSS033038	33-38
SDSS036042	36-42
SDSS040046	40-46
SDSS044050	44-50
SDSS048055	48-55
SDSS051058	51-58
SDSS055062	55-62

Part No.	Cable diameter (mm)
SDSS059066	59-66
SDSS063070	63-70
SDSS067074	67-74
SDSS071078	71-78
SDSS074082	74-82
SDSS077085	77-85
SDSS082088	82-88
SDSS088096	88-96
SDSS096103	96-103
SDSS103111	103-111
SDSS111119	111-119
SDSS119128	119-128

Sapphire: Cable cleat for single formation

Classification	**According to IEC 61914: 2015**
Material	Metallic (316L Stainless steel)
Max and min temperature	-50°C to +60°C
Resistance to impact	Very heavy
Resistance to electromechanical forces	Lateral and axial retention, withstanding more than one short circuit.
Needle flame test	120s
Resistance to UV light	Passed

Part No.	Cable diameter (mm)
SHDSS019026	19-26
SHDSS026032	26-32
SHDSS032038	32-38
SHDSS038046	38-46
SHDSS046051	46-51
SHDSS051058	51-58
SHDSS058070	58-70
SHDSS070083	70-83
SHDSS083097	83-97
SHDSS096109	96-109
SHDSS106120	106-120
SHDSS120135	120-135
SHDSS135150	135-150

Valiant: One bolt single cable cleat

Classification	**According to IEC 61914: 2015**
Material	Metallic (Aluminium)
Max and min temperature	-60°C to +150°C
Resistance to impact	Very heavy
Resistance to electromechanical forces	Lateral and axial retention, withstanding more than one short circuit
Resistance to corrosion	High

Part No.	Cable diameter (mm)
1BC1013A	10 - 13
1BC1316A	13 - 16
1BC1619A	16 - 19
1BC1923A	19 - 23
1BC2327A	23 - 27
1BC2732A	27 - 32
1BC3238A	32 - 38
1BC3846A	38 - 45
1BC4551A	45 - 51
1BC5158A	51 - 58
1BC5865A	58 - 65
1BC6571A	65 - 71

Zenith: Two bolt single cable cleat

Classification	**According to IEC 61914: 2015**
Material	Metallic (Aluminium)
Max and min temperature	-60°C to +150°C
Resistance to impact	Very heavy
Resistance to electromechanical forces	Lateral and axial retention, withstanding more than one short circuit
Resistance to corrosion	High

Part No.	Cable diameter (mm)
2BC038048A	38 - 48
2BC048058A	48 - 58
2BC058070A	58 - 70
2BC070083A	70 - 83
2BC083097A	83 - 97
2BC096109A	96 - 109
2BC106120A	106 - 120
2BC120135A	120 - 135
2BC135151A	135 - 151

Cyclone I: Cable cleat for single, trefoil or quad formation.

Classification	**According to IEC 61914: 2015**
Material	Metallic (316L Stainless steel with Aluminium base)
Max and min temperature	-50°C to +40°C
Resistance to impact	Very Heavy
Resistance to electromechanical forces	Lateral and axial retention, withstanding more than one short circuit
Resistance to corrosion	High
Needle flame test	120s
Resistance to UV light	Passed

Part No.	Cable diameter (mm)		
	Single	Trefoil	Quad
1CYC024034	36-50	24-34	21-29
1CYC030041	45-60	30-41	26-35
1CYC037047	55-69	37-47	32-40
1CYC043054	64-80	43-54	37-46
1CYC050060	75-88	50-60	43-51
1CYC056067	83-99	56-67	49-57
1CYC063073	94-108	63-73	55-62
1CYC069080	103-118	69-80	60-68
1CYC072085	114-150	72-85	66-72
1CYC082095	145-165	82-95	70-81
1CYC092105		92-105	70-81
1CYC102115		102-115	88-98
1CYC112125		112-125	96-107
1CYC122135		122-135	105-116
1CYC132145		132-145	113-124

Solace: One bolt high temperature cable cleat

Classification	**According to IEC 61914: 2015**
Material	Metallic (316L Stainless steel)
Max and min temperature	-60°C to +250°C
Resistance to impact	Very Heavy
Resistance to electromechanical forces	Lateral and axial retention, withstanding more than one short circuit

Part No.	Cable diameter (mm)
1BC1013HT	10 - 13
1BC1316HT	13 - 16
1BC1619HT	16 - 19
1BC1923HT	19 - 23
1BC2327HT	23 - 27
1BC2732HT	27 - 32
1BC3238HT	32 - 38
1BC3846HT	38 - 45
1BC4551HT	45 - 51
1BC5158HT	51 - 58

1BC5865HT	58 - 65
1BC6571HT	65 - 71

Themis: Two bolt high temperature cable cleat

Classification	**According to IEC 61914: 2015**
Material	Metallic (316L Stainless steel)
Max and min temperature	-60°C to +250°C
Resistance to impact	Very Heavy
Resistance to electromechanical forces	Lateral and axial retention, withstanding more than one short circuit

Part No.	Cable diameter (mm)
2BC038048HT	38 - 48
2BC048058HT	48 - 58
2BC058070HT	58 - 70
2BC070083HT	70 - 83
2BC083097HT	83 - 97
2BC096109HT	96 - 109

Helios: One bolt fabricated high temperature cable cleat

Classification	**According to IEC 61914: 2015**
Material	Metallic (316L Stainless steel)
Max and min temperature	-60°C to +250°C
Resistance to impact	Very Heavy
Resistance to electromechanical forces	Lateral and axial retention, withstanding more than one short circuit

Part No.	Cable diameter (mm)
FPC1013	10-13
FPC1316	13-16
FPC1619	16-19
FPC1923	19-23
FPC2327	23-27
FPC2732	27-32

Part No.	Cable diameter (mm)
FPC3238	32-38
FPC3846	38-46
FPC4651	46-51
FPC5157	51-57
FPC5765	57-65

Huron: Cable cleat for trefoil formation

Classification	**According to IEC 61914: 2015**
Material	Metallic (Aluminium)
Max and min temperature	-50°C to +60°C
Resistance to impact	Very Heavy
Resistance to electromechanical forces	Lateral and axial retention, withstanding more than one short circuit
Resistance to corrosion	High
Needle flame test	120s
Resistance to UV light	Passed

Part No.	Cable diameter (mm)
LDAL019023	19-23
LDAL023028	23-28
LDAL027032	27-32
LDAL030035	30-35
LDAL033038	33-38
LDAL036042	36-42
LDAL040046	40-46
LDAL044050	44-50
LDAL048055	48-55
LDAL051058	51-58
LDAL055062	55-62
LDAL059066	59-66

Part No.	Cable diameter (mm)
LDAL063070	63-70
LDAL067074	67-74
LDAL071078	71-78
LDAL074082	74-82
LDAL077085	77-85
LDAL082088	82-88
LDAL088096	88-96
LDAL096103	96-103
LDAL103111	103-111
LDAL111119	111-119
LDAL119128	119-128

Reliance: Cable cleat for trefoil formation

Classification	**According to IEC 61914: 2015**
Material	Metallic (Aluminium)
Max and min temperature	-50°C to +60°C
Resistance to impact	Very Heavy
Resistance to electromechanical forces	Lateral and axial retention, withstanding more than one short circuit
Resistance to corrosion	High
Needle flame test	120s
Resistance to UV light	Passed

Part No.	Cable diameter (mm)
SDAL019023	19-23
SDAL023028	23-28
SDAL027032	27-32
SDAL031035	31-35
SDAL034038	34-38
SDAL037042	37-42
SDAL041046	41-46
SDAL045050	45-50
SDAL049055	49-55
SDAL052058	52-58
SDAL056059	56-59
SDAL056062	56-62

Part No.	Cable diameter (mm)
SDAL060066	60-66
SDAL064070	64-70
SDAL068074	68-74
SDAL072078	72-78
SDAL076082	76-82
SDAL080086	80-86
SDAL084090	84-90
SDAL090098	90-98
SDAL098103	98-103
SDAL103111	103-111
SDAL111119	111-119
SDAL119128	119-128

Saturn: Cable cleat for quad formation

Classification	**According to IEC 61914: 2015**
Material	Metallic (316L Stainless steel)
Max and min temperature	-50°C to +60°C
Resistance to impact	Very Heavy
Resistance to electromechanical forces	Lateral and axial retention, withstanding more than one short circuit
Needle flame test	120s
Resistance to UV light	Passed

Part No.	Cable diameter (mm)
QSDSS019023	19-23
QSDSS021027	21-27
QSDSS026031	26-31
QSDSS030034	30-34
QSDSS031035	31-35
QSDSS033037	33-37
QSDSS036040	36-40
QSDSS039043	39-43
QSDSS041045	41-45

Part No.	Cable diameter (mm)
QSDSS044047	44-47
QSDSS046051	46-51
QSDSS049053	49-53
QSDSS052056	52-56
QSDSS055059	55-59
QSDSS058062	58-62
QSDSS061065	61-65
QSDSS064068	64-68
QSDSS067071	67-71

Venus: Cable cleat for quad formation

Classification	**According to IEC 61914: 2015**
Material	Metallic (316L Stainless steel)
Max and min temperature	-50°C to +60°C
Resistance to impact	Very Heavy
Resistance to electromechanical forces	Lateral and axial retention, withstanding more than one short circuit
Needle flame test	120s
Resistance to UV light	Passed

Part No.	Cable diameter (mm)		Part No.	Cable diameter (mm)
QPSS-18	16.5-19.5		QPSS-40	38.5-41.5
QPSS-19	17.5-20.5		QPSS-42	40.5-43.5
QPSS-20	18.5-21.5		QPSS-44	42.5-45.5
QPSS-21	19.5-22.5		QPSS-46	44.5-47.5
QPSS-22	20.5-23.5		QPSS-48	46.5-49.5
QPSS-24	22.5-25.5		QPSS-50	48.5-51.5
QPSS-26	24.5-27.5		QPSS-51	49.5-52.5
QPSS-28	26.5-29.5		QPSS-52	50.5-53.5
QPSS-30	28.5-31.5		QPSS-54	52.5-55.5
QPSS-32	30.5-33.5		QPSS-56	54.5-57.5
QPSS-34	32.5-35.5		QPSS-58	56.5-59.5
QPSS-36	34.5-37.5		QPSS-60	58.5-61.5
QPSS-38	36.5-39.5			

Application/Limitation

The manufacturer's instructions shall be followed

Type Approval documentation

Datasheets and test reports in documents referred to in Approval letters:
MCANO381/PONT/262.1-016742-J-17 dated 2015-08-04
MCANO381/PONT/262.1-016742-J-25 dated 2015-09-10
MCANO381/PONT/262.1-016742-J-29 dated 2015-10-06
MCANO381/PONT/262.1-016742-J-42 dated 2016-03-18
DEKRA Test Report no 2242666.01-NC, dated 2020-04-21
CMP Internal Technical Report no. SSDS VS SDSS2 dated 2020-06-16

Tests carried out

Type tests according to IEC 61914: 2015

Marking of product

Manufacturer name – Type designation – Product identification

Periodical assessment

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

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine tests (RT) checked (if not available tests according to 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.

Assessment to be performed at 2 and 3.5 year and at renewal.

END OF CERTIFICATE