

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Cable Cleats

with type designation(s)
Valiant, Zenith

Issued to
CMP Products Limited
Northumberland, United Kingdom

is found to comply with
DNV GL rules for classification – Ships and offshore units

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

This Certificate is valid until **2021-03-20**.

Issued at **Høvik** on **2016-03-21**

DNV GL local station: **Newcastle-upon-Tyne**

Approval Engineer: **Marta Alonso Pontes**

for **DNV GL**

Marit Laumann
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

Valiant: One bolt single cable cleat

Classification	According to IEC 61914: 2009
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
1BC4651A	45 - 51
1BC5158A	51 - 58
1BC5865A	58 - 65
1BC6571A	65 - 71

Zenith: Two bolt single cable cleat

Classification	According to IEC 61914: 2009
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

Application/Limitation

The manufacturer's instructions shall be followed

Job Id: **262.1-016742-1**
Certificate No: **TAE00000JD**

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

Tests carried out

Type tests according to IEC 61914:2009

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 least every second year.

END OF CERTIFICATE