

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Enclosure for Electrical Equipment**

with type designation(s)

Handi-fit box, 3-way bottom entry box, Bottom-entry angle box,

Issued to

**CCG Cable Terminations (Pty) Ltd.
KEMPTON PARK, South Africa**

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft**Application :****Industrial junction box.****Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.****Degree of protection IP66, IP67, IP68****Vibration class NA**Issued at **Høvik** on **2021-01-11**This Certificate is valid until **2025-10-13**.for **DNV GL**DNV GL local station: **Newcastle-upon-Tyne**Approval Engineer: **Nicolay Horn**

**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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

Industrial Junction box

Type	Handi-fit box series
Application	The HANDI_FIT BOX is a connection box with a DIN rail mount for terminal blocks. It is available with entries arranged in a 4-way cruciform or 'H' formation and 3-way in a 'Y' formation. Empty enclosures are also available.
Operating temp.	-60°C to +110°C
Ingress Protection	IP66, IP67, IP68
Box Material	Impact, corrosion and UV resistant glass reinforced polyester compound. (PBT)
No. of Box Sizes (4 way, H, Y)	5,4,2
Gland entry size	M16 to M40
Cable size	2,5mm ² to 70mm ²
Max. voltage rating	550V depending upon terminals used
Data sheet	0650_Handi_Fit_JB140420
Assembly drawing (Construction identical to Posi-fit range)	1003-0 - 100304 1009-0 - 100903 100301-H - 100303-H

Type	3-way bottom entry box
Application	The 3-WAY BOTTOM ENTRY BOX is a connection box with an optional DIN rail mount for terminal blocks. Empty enclosures are also available.
Operating temp.	-60°C to +110°C
Ingress Protection	IP66, IP67, IP68
Box Material	Impact, corrosion and UV resistant glass reinforced polyester compound. (PBT)
No. of Box Sizes	2
Gland entry size	M20, M25
Cable size	2,5mm ² to 35mm ²
Max. voltage rating	550V depending upon terminals used
Data sheet	1002_3WayBE-JB140420
Assembly drawing	100201 - 100202-M

Type	Bottom-entry angle box
Application	The BOTTOM-ENTRY ANGLE BOX is a connection box with an optional DIN rail mount for terminal blocks. It is angled and is designed for use with lighting. Empty enclosures are also available.
Operating temp.	-60°C to +110°C
Ingress Protection	IP66, IP67, IP68
Box Material	Impact, corrosion and UV resistant glass reinforced polyester compound. (PBT)
No. of Box Sizes	3
Gland entry size	M20, M40
Cable size	2,5mm ² to 35mm ²
Max. voltage rating	550V depending upon terminals used
Data sheet	0653BEAngleBox_JB140420
Assembly drawing	100921 -(BE) - 100923-(BE)

Variants of the products listed in this certificate where the core functions and protection systems are unchanged are also covered by the certificate.

Job Id: **262.1-019235-2**
Certificate No: **TAE000047U**

Application/Limitation

Manufacturer's application and assembly instructions to be followed.
The information related to EN certification from recognised test institution is given as information only.

Type Approval documentation

Tests carried out

Type tests according to IEC 60529, IEC 62208 and IEC 62262.

Marking of product

CCG cable termination (PTY) LTD – Type designation – IP rating

Periodical assessment

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

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Production Sample Tests (PST) and Routines (RT) checked (if not available tests according to PST and 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.

Periodical assessment to be performed at 2 and 3.5 year and at renewal.

END OF CERTIFICATE