

Certificate of Assessment

CML 17Y11251

Issue 0

- 1 Equipment **Non-metallic Industrial Junction Box Series**
- 2 Manufacturer **CCG Cable Terminations (Pty) Ltd**
- 3 Address **33-37 Forge Road, Spartan Industrial Area, Kempton Park, 1619, South Africa**
- 4 The components specified have been evaluated against the requirements of the standard specified in Section 7.
- 5 This evaluation is based on the following documents:
CML report R11251A/00
- 6 Specification: BS EN 62208:2011 / IEC 62208, Ed. 2 (2011)
BS EN 62262:2002 / IEC62262, Ed. 1.0 (2002)
- 8 Assessment The components specified have been evaluated against the requirements of the standard specified in Section 7, with the respect to the requirements for empty enclosures for low-voltage switchgear and control gear assemblies- General requirements. Additionally, the components listed have been evaluated against the requirements for IK10 for electrical equipment against external mechanical impacts.
- 9 The equipment shall be marked with the following:
EN/IEC 62208
EN/ IEC62262
IK10
- 10 Date: 31 August 2017



D R Stubbings MIET
Technical Director

11 Description

ALL JUNCTION boxes:

- Are manufactured from a DMC (Dough Moulding Compound).
- Include pressed metallic inserts in the side of the enclosure with threaded entries for sufficiently IP rated glands or plugs.
- Have an o-ring(s) which is utilized between the housing and the cover of the enclosure to maintain the IP rating.
- Can be manufactured to be used for terminal blocks located on the internal rail, fitted to the base of the junction box.

Handifit boxes:

The Handifit enclosures have a cylindrical shaped body with a screw on cover, secured/opened with a special tool that engages into splines on the cover of the enclosure.

An optional polycarbonate/DMC cover (Adaptalid) may be screwed on with four M5 countersink screws into metallic inserts in a DMC adaptor, which is threaded to replace the normal threaded cover. An o-ring is utilised between the polycarbonate section and adaptor to maintain the IP rating.

Handifit Screw Fit boxes:

The Screw Fit non-metallic junction box enclosure has a cylindrical shaped body with a cover, secured with four M5 stainless steel pan-pozi screws in metallic threaded inserts moulded in the base of the enclosure. An o-ring is utilised with the cover to maintain the IP rating.

The range of enclosures consists of the following:

Type	Box size	Dimensions (Dia, X height) (mm)	Gland entry sizes	Maximum Gland entry amount and arrangement
Handifit Junction box	0	100 x 78	M16-M20	Four entries positioned orthogonal around the side walls with multiple gland entry sizes.
	1	118 x 91	M16-M20	
	2	140 x 114	M16-M25	
	3	203 x 142	M16-M32	
	4	298 x 186	M16-M40	
Handifit Bottom entry angle Box	1	118 x 98	M20-M25	Three entries positioned at the bottom of the box: - one entry closest to the base of the box and two entries closest to the rim of the box
	2	140 x 105	M16-m32	
	3	202 x 140		

Type	Box size	Dimensions (Dia, X height) (mm)	Gland entry sizes	Maximum Gland entry amount and arrangement
Handifit 3 Way Bottom entry box	1	128 x 112	M16-M20	Three entries positioned at the bottom of the box: - one entry closest to the base of the box and two entries closest to the rim of the box.
	2	162 x 160	M16-M25	
Handifit Y Box	0	102 x 81	M16-M20	Two entries positioned on the side of the box and one entry positioned on the opposite side of the box.
	1	118 x 111	M16-M20	
	2	138 x 123	M16-M25	
	3	200 x 94	M16-M32	
Handifit H Box	1	118 x 94	M16-M20	Two entries positioned on the side of the box and two entries positioned on the opposite side of the box
	2	138.5 x 100	M16-M25	
Handifit ST Box strut box	1	158 x 104	M16-M20	Four entries positioned on opposite sides with multiple gland entry sizes
Handifit Angle Box	2	121 x 100	M20-M25	Two entries on flat section and two on cylindrical side.
Handifit Screw Fit Box	All	Similar to above	As above	Same options as for above types

The following terminal blocks are allowable with the junction boxes:

Box Size	Terminal Type	Size	Continuous Current MAX	Max Voltage STD	Max Quantity STD
0	AKZ-4	4mm ² mini terminal	41A	400V	8
0	WDU 2.5	2.5mm ²	32A	800V	4
1	WDU 2.5	2.5mm ²	32A	800V	12
1	AKZ-4	4mm ² mini terminal	41A	400V	11
1	WDU 4	4mm ²	41A	800V	9
1	WDU 6	6mm ²	57A	800V	7
1	WDU 10	10mm ²	76A	1000V	5
1	WDU 16	16mm ²	101A	1000V	4
2	WDU 2.5	2.5mm ²	32A	800V	16

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2	AKZ-4	4mm ² mini terminal	41A	400V	14
2	WDU 4	4mm ²	41A	800V	13
2	WDU 6	6mm ²	57A	800V	10
2	WDU 10	10mm ²	76A	1000V	8
2	WDU16	16mm ²	101A	1000V	6
2	WDU 35	35mm ²	150A	1000V	53
3	WDU 2.5	2.5mm ²	32A	800V	25
3	AKZ-4	4mm ² mini terminal	41A	400V	23
3	WDU 4	4mm ²	41A	800V	20
3	WDU 6	6mm ²	57A	800V	16
3	WDU 10	10mm ²	76A	1000V	12
3	WDU 16	16mm ²	101A	1000V	10
3	WDU 35	35mm ²	150A	1000V	8
3	WDU 70	70mm ²	232A	1000V	5
3	AKZ-4	4mm ² mini terminal	41A	400V	23
4	WDU 2.5	2.5mm ²	32A	800V	45
4	AKZ-4	4mm ² mini terminal	41A	400V	35
4	WDU 4	4mm ²	41A	800V	35
4	WDU 6	6mm ²	57A	800V	28
4	WDU 10	10mm ²	76A	1000V	22
4	WDU 16	16mm ²	101A	1000V	18
4	WDU 35	35mm ²	150A	1000V	13
4	WDU 70	70mm ²	232A	1000V	10

The earthing construction parameters:

- Max continuous current allowable according to IEC 60947-7-2)

Item	Plate thickness	Rated Current (Amps)
Box size No. 0	0.3mm brass	32.8
Box size No. 1	0.3mm brass	76.1
Box size No. 2	0.3mm brass	127.0
Box size No. 3	N/A	192.8
Box size No. 4	N/A	192.8

- Short circuit current according to IE 62444 and IEC 60947-7-2

Box size	Plate thickness	Continuous current	IEC 62444 Short circuit (1 sec)	IEC 60947 Short Circuit (1 sec)
No. 0	0.5mm brass	32A	500A	480A
No. 1	0.5mm brass	76A	500A	1920A
No. 2	0.5mm brass	125A	500A	1920A
No. 3	N/A	192A	500A	1920A
No. 4	N/A	192A	500A	1920A