: E** Family of CIEL Cable Glands ·IP66 : BS EN ISO 9001

INSTALLATION INSTRUCTIONS

Installation should only be performed by a competent person using the correct tools. Read all instructions before beginning installation

ACCESSORIES

The following accessories are available from CMP Products, as optional extras, to assist with fixing, sealing and earthing : Locknut | Serrated Washer | Entry Thread (I.P.) Sealing Washer

										Oute	er Seal 1	ightening	Guide								
Number of turn	s										GLA	ND SIZE									
to tighten	20	S16	205		20	2	5S	25		32		40	50S	5	0	63S	6	53	755	;	75
											CABLE	DIAMETER	2								
0.5	1.	3.2	15.9		20.9	22	2.0	26.2		33.9											
1 12.5		15.3		20.0 2		1.2	25.4		32.9		40.4	46.7	52	.8	59.2	6	5.9	72.1		78.5	
1.5 11.9		14.7		19.0).4	4 24.6		31.9		39.0 45.4		51.4		57.7	6	64.6		5	77.2	
2 11.2		14.2		18.1		19.6 23.8		30.8			37.6	44.1	50.0		56.2	6	63.4		2	75.9	
2.5 10.5		13.6		17.2		18.8 23.0		29.8			36.2	42.9	48	.7	54.7	6	2.1	67.7	7	74.6	
3 9.8		13.0		16.2		18.0 22.2			28.8		34.8	41.6 47.3		.3	53.2	6	60.9		66.3		
3.5	9	.2	12.4		15.3	13	7.2	21.4	ļ į	27.8		33.5	40.3	45	.9	51.6	5	9.6	64.8	3 3	71.9
4	8	.5	11.8		14.4	16	5.4	20.6	;	26.8		32.1	39.0	44	.5	50.1	5	8.4	63.4	1	70.6
4.5	7	.8	11.2		13.4	15	5.6	19.8	:	25.7		30.7	37.8	43	.2	48.6	5	7.1	61.9) (69.3
5	7	.1	10.7		12.5	14	4.8	19.0)	24.7		29.3	36.5	41	.8	47.1	5	5.9	60.5	5 0	58.0
5.5	6	.5	10.1		12.0	14	4.0	18.2		23.7		27.9	35.2	40	.4	45.6	5	4.6	59.0		56.7
6	5	.8	9.5														Ì				
Cable		Thread	Threads Lengths Av	ailable Optior) Bed	ble ding neter		ll Cable neter		mour ange	Acros Flats	s Across Corners	Protrusion		dius ension	CIEL Earth	Earth Fault		nbined C Referer Brass M	nce	Cable
Gland Size Metric	Thread Length (Metric)	NPT	Thread Length (NPT)	NPT	Min	Max	Min	Max	Min	Max	Max	Max	Length	"Н"	"G"	Bolt Size	Current Rating (kA)	Size	Туре	Ordering Suffix	Weigl (Kgs
205 M20	10.0	1/2″	19.9	3/4"	6.1	11.6	9.5	15.9	0.8	1.25	24.0	26.4	70.0	28.6	38.6	M8	26.0	20S	E1WC	1RA	0.195
20 M20	10.0	1/2"	19.9	3/4"	6.5	13.9	12.5	20.9	0.8	1.25	30.5	33.6	73.0	31.8	41.8	M8	26.0	20	E1WC	1RA	0.276
25S M25	10.0	3/4"	20.2	1″	11.1	19.9	14.0	22.0	1.25	1.6	37.5	41.3	89.0	38.1	50.8	M8	26.0	255	E1WC	1RA	0.438
25 M25	10.0	3/4"	20.2	1″	11.1	19.9	18.2	26.2	1.25	1.6	37.5	41.3	89.0	38.1	50.8	M8	26.0	25	E1WC	1RA	0.43

.0	5″	46.8	6″	97.0	114.9	110.2	123.2	3.15	4.0	152.4	167.6	177.0	102.0	133.8	M12	43.0	130	E1W
	*Note : For	material op	tions plea:	e add the	e followin	g suffix t	o change	the Ord	ering Re	ference ; Br	ass (no suff	ix required), I	vickel Pla	ed Brass	"5", Cop	per Free Alu	minium *	1"
Tor	tions add t	he following	diaits to	the mate	rial suffix	1/2" - 3	1. 3/4" -	32.1"-	33.1 1/4	$1'' = 34 \cdot 1 \cdot 1$	/2" - 35. 2"	- 36: 2 1/2"	- 37.3".	- 38. 3 1/	2" - 39.	4" - 310 (Rr	ass rocui	os nroi

Examples: 32E1WC1RA534 = Nickel Plated Brass 1-1/4" NPT, 50SE1WC1RA035 = Brass 1-1/2" NPT, 20E1WC1RA5 = Nickel Plated Brass M20 Dimensions are displayed in millimetres unless otherwise stated

50.6

66.0

82.5

146.7

46.0

90.0 99.0

114.3 125.7

123.0 135.3

2.0 55.0 60.5

25 70.1 771

25 80.0 88.0

3.0 100.0 110.0 413

57.2

60.3

86.0

90.0 50.8

91.0

95.0

102.0 70.0

104.0 70.0

115.0 76.2 98.5 M12 43.0 755 E1W/C 1RA 2 310

117.0 82.6

147.0

140.0

162.0

54.0 M10

68.3 M12

74.6 M12

79.4 M12

90.5 M12

90.5 M12

108.0 M12

95.3 127.1 M12

102.0 133.8 M12

95.3 127.1 M12

26.0

26.0 40

43.0 505 E1WC 1RA 0.883

43.0 50 E1WC

43.0 635 E1WC 1RA 1.636

43.0 63 E1\A/C 1RA

43.0

43.0 90 E1WC 1RA 4 417

43.0 100 E1WC

43.0

F1WC 1RA 0.506

E1WC

F1WC 1RA 2 717

E1WC

fix '0')

1RA 0.802

1RA

1RA 4 8 2 0

1RA

1.038

1 5 9 7

8.539

32

115 F1WC 1RA 6.191

*Order codes shown are for E1WC glands For e.g. E1XC glands substitue E1WC for E1XC - e.g. 20E1XC1RA

1"

1 1/2"

25.0

25.6

26.1 2"

26.9

39.9 3″

39.9 3″

42.8 4"

44.0 5"

1 1/2" 22.0

10.0

15.0 1 1/4"

15.0

15.0 2" 26.9

15.0

15.0 2 1/2"

15.0 2" 41.5 3 1/2" 591 67.9

24.0 3 1/2"

24.0 4"

24.0 4" 44.0 5″

24.0

For NP

Please note that the overall maximum cable bedding diameter for "E2" variants should be reduced by 1mm to allow for the inner lead sheath.

1 1/4" 17.0 26.2 23.7 33.9 1.6 2.0

279 404 16

21/2" 401 499 456 594 20 25 750

66.6 78.6 76.2 90.3 3.15 4.0

76.0 90.9 86.1 101.4 3.15 4.0

47.2 55.9 54.6 65.8 2.0

295 381 352 467 20 25 600

667 784 25

86.0 97.9 101.5 110.2 3.15 4.0 133.4

590 720 20 25

32.1

52.8 61.9

2 1/2" 35.6 44.0 40.4 53.0 2.0

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E2WC -

E1XC -

Universal Gland for all Armour Types with lead sheathed cable

sheathed cable

SCAN FOR INSTALLATION VIDEOS

INSTALLATION INSTRUCTIONS FOR CMP CABLE GLAND TYPE "E" WITH CAST INTEGRAL EARTH LUG

FOR TERMINATION OF CABLES WITH WIRE BRAID, TAPE ARMOUR (STA/DSTA), STRIP ARMOUR & SINGLE WIRE ARMOUR (SWA) (WITH LEAD INNER SHEATH ON "E2" VARIANT). INCORPORATING A CAST INTEGRAL EARTH LUG.

CABLE GLAND TYPES E1WC, E2WC, E1XC, **E2XC, E1UC & E2UC**



E1WC -SWA Armour

Date Printed:

SWA Armour for lead Braid, Tape, etc Armour Braid, Tape, etc Armour for



32

40

505 M50

50

635

63 M63

755 M75

75 M75

90 M90

100 M100

130 M130

115 M115

M32

M40

M50 15.0 2"

M63

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INSTALLATION INSTRUCTIONS FOR CMP CABLE GLAND TYPES "E"

SUB ASSEMBLY A

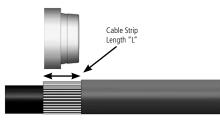
CABLE GLAND COMPONENTS - It is not necessary to dismantled the cable gland any further than illustrated below

- 1. Entry Component
- 2. Main Item with CIEL
- 3. Detachable Armour Cone
- 4. AnyWay Clamping Way
- 5. Body
- с.о.,
- 6. Outer Seal Nut
- 7. Earth Bolt

PLEASE READ ALL INSTRUCTIONS CAREFULLY BEFORE BEGINNING THE INSTALLATION

1. If required fit shroud over the cable outer sheath;

Prepare the cable by stripping back the cable outer sheath and armour to suit the equipment geometry. Expose the armour by stripping back the outer sheath further using the table below as a guide. If applicable remove any tapes or wrappings to expose cable inner sheath.



Tape armour should be further prepared by cutting the tape into strips as shown below:



CABLE GLAND SIZE	205/16, 205, 20	255, 25, 32, 40	50S, 50, 63S, 63	75S, 75, 90, 100, 115, 130
CABLE STRIP LENGTH "L"	12mm	15mm	18mm	20mm

2. Separate the gland into two sub-assemblies "A & B". Ensuring that the Outer Seal Nut (6) is relaxed, pass sub-assembly "B" over the cable outer sheath and armour followed by the "AnyWay" clamping ring (4).

Note: On maximum size cables the clamping ring may only pass over the armour.



SUB ASSEMBLY B

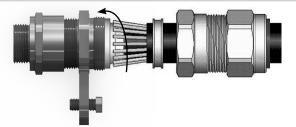
3. Ensure that the inner seal is relaxed by slackening the Main Item (2). Secure sub-assembly "A" into the equipment either by screwing the Entry Item (1) into a threaded hole or by securing it in a clearance hole using a locknut as applicable.



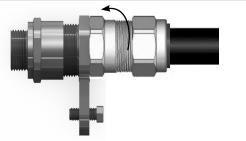
4. Locate the Armour Cone (3) into its recess in the Main Item (2). (N.B. For E1U and E2U variants, make sure the correct side of the cone is outermost - grooved for braid/tape armour and stepped for SWA). Pass the cable through sub-assembly "A" until the armour engaged with the cone. Spread the armour evenly around the cone.



5. While continuing to push the cable forward to maintain contact between the armour and the cone, tighten the Main Item (2) until the inner seal makes contact with the cable inner sheath (heavier resistance is felt at this point). Tighten a further full turn. NOTE: The earthing device on E2* type glands will automatically engage the lead sheath.



6. Hold the Main Item (2) with a spanner and tighten sub-assembly "B" onto sub-assembly "A" using a spanner until all available threads are used.



7. Only using finger pressure, tighten the outer seal nut assembly (6) until light resistance to tightening is met.

Then either use the outer seal tightening guide tape or table on the rear of the page to determine how much further to tighten the seal using a spanner (using the outer seal tightening guide is recomended).

Wrap the outer seal tightening guide tape around the cable to show the amount of spanner turns needed (as shown here). Make sure the correct side of the outer seal tightening guide tape is used depending on the cable gland size.



8. Connect the earth cable to the earth bolt.

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