



## TYPE TEST CERTIFICATE

*This certificate is issued to*

### **A-1 ELECTRICALS**

20 ALANKAR CHAMBERS, DHEBAR CHOWK, TRIKON BAUG  
RAJKOT 360001, GUJARAT, INDIA.

*for the type of product*

### **CABLE GLANDS FOR ELECTRICAL INSTALLATIONS**

Device designed to permit the entry of a cable, flexible cable or insulated conductor into an enclosure, and which provides sealing and retention. It may also provide other functions such as earthing, bonding, insulation, cable guarding, strain relief.

#### **Requirements:**

#### **British Standard BS EN 62444:2013 ( International Standard IEC 62444:2010 )**

This Standard provides requirements and tests for the construction and performance of cable glands.

#### 1. PRODUCT DESCRIPTION :

A1 ELECTRICALS TYPE:	TYPE
CW TYPE BRASS CABLE GLAND KITS	ACW-20L ACW-50L ACW-63L ACW-90L
A2 TYPE BRASS CABLE GLAND KITS	AA2-20L AA2-50L AA2-63L AA2-90L
BW TYPE BRASS CABLE GLAND KITS	ABW-20L ABW-50L ABW-63L ABW-90L

#### 2. DOCUMENTS AND DRAWINGS :

As per Manufacturer's catalogue N°

**Attached**

#### 3. APPLICATION / LIMITATION :

3.1 - Approval also valid for other coss sections ranges to be granted with the components of the Drawings : N° **Attached**

3.2 - According to IEC Rules for the Classification of Category

**C**

Category C is the highest requirement, which applies in cases where a steel wire armoured cable is used and the system relies on a low sensitivity method of protection against fault currents.

#### 4. MARKING OF PRODUCT :

According to A1 Electricals catalogue and specifications.

#### 5. TYPE TESTS REPORT :

Type tests Report n. A1-ACW2016 dated 16/09/2016

Type tests Report n. A1-AA22016 dated 22/09/2016

Type tests Report n. A1-ABW2016 dated 30/09/2016



*This certificate is issued to attest that University of Rome in cooperation with CESI inspection facility did undertake the relevant type tests approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.*

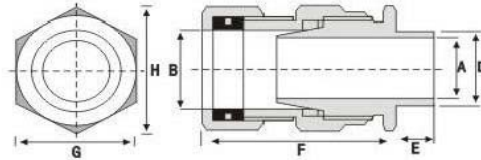
**Certificate number: UOREL-201641-16**

**Rome, 10/10/2016**

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ALL DIMENSIONS ARE IN MM



Size	Cable Dimensions Accomodate		Gland Dimensions					A-1 ELECTRICALS Prod. Code
	Under Armour Dia. A Max. mm	Overall Dia. B Max. mm	ISO Entry Thread		Approx Length from Shoulder F mm	Hexagonal Size		
			D mm	E mm		Across Flat G mm	Across Corners H mm	
16 S	8.00	11.00	M16	10.00	40.00	20.00	23.00	ACW - 16 S
16 L	9.00	13.00	M16	10.00	40.00	20.00	23.00	ACW - 16 L
20 S	12.50	15.00	M20	10.00	42.00	22.00	24.00	ACW - 20 S
20 L	14.30	19.00	M20	10.00	42.00	26.00	29.00	ACW - 20 L
25 S	18.40	23.80	M25	10.00	44.00	31.00	34.00	ACW - 25 S
25 L	20.70	27.00	M25	10.00	44.00	34.90	38.00	ACW - 25 L
32 S	26.50	31.00	M32	10.00	46.00	41.00	45.70	ACW - 32 S
32 L	27.00	32.50	M32	10.00	46.00	41.25	46.00	ACW - 32 L
40 S	31.70	37.00	M40	13.50	50.00	45.00	50.00	ACW - 40 S
40 L	33.25	39.00	M40	13.50	50.00	49.00	54.00	ACW - 40 L
50 S	39.80	46.00	M50	14.00	57.00	56.00	62.70	ACW - 50 S
50 L	44.00	50.00	M50	14.00	57.00	62.30	69.50	ACW - 50 L
63 S	50.50	59.00	M63	14.00	70.00	72.50	81.00	ACW - 63 S
63 L	56.00	62.00	M63	14.00	61.00	76.00	85.00	ACW - 63 L
75 S	62.70	71.00	M75	15.00	65.00	85.00	95.00	ACW - 75 S
75 L	67.90	77.50	M75	15.00	66.00	91.00	103.00	ACW - 75 L
90 S	76.00	84.00	M90	20.00	80.00	100.00	110.00	ACW - 90 S
90 L	78.00	89.00	M90	20.00	82.00	103.00	114.00	ACW - 90 L

**A-1 ELECTRICALS, RAJKOT,  
GUJARAT, INDIA**  
Website: [www.a1electricals.com](http://www.a1electricals.com)  
Email: [info@a1electricals.com](mailto:info@a1electricals.com)

NAME SIGN DATE

DRN. RP

CHKD. JV

APPD. NG

**TITLE:** CW TYPE BRASS CABLE GLAND KITS.

**DRAWING NO.:**

AE/CW CABLE GLAND KITS/15

**SCALE**

NTS

**WEIGHT**

-

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ALL DIMENSIONS ARE IN MM								
	Overall Dia. B		ISO Entry Thread		Approx Length from Shoulder	Hexagonal Size		Prod. Code
	Min. mm	Max. mm	Dia	Length	F mm	Across Flat	Across Corners	
			Dmm	E mm	F mm	G mm	H mm	
16 S	4.00	7.0	M16	10.00	20.00	21.00	24.00	AA2 - 16 S
16 L	5.50	8.50	M16	10.00	22.00	21.00	24.00	AA2 - 16 L
20 S	8.50	11.50	M20	10.00	24.00	22.00	24.00	AA2 - 20 S
20 L	13.00	14.00	M20	10.00	24.00	24.00	26.00	AA2 - 20 L
25 S	13.50	17.50	M25	10.00	25.00	27.00	30.00	AA2 - 25 S
25 L	16.00	20.00	M25	13.00	26.00	30.00	33.00	AA2 - 25 L
32 S	19.00	23.00	M32	13.00	28.00	36.00	40.00	AA2 - 32 S
32 L	22.00	26.00	M32	14.00	28.00	36.00	40.00	AA2 - 32 L
40 S	24.00	29.00	M40	15.00	31.00	44.00	49.00	AA2 - 40 S
40 L	28.00	33.00	M40	15.00	31.00	46.00	50.00	AA2 - 40 L
50 S	35.00	40.00	M50	15.00	33.00	55.00	61.00	AA2 - 50 S
50 L	39.00	44.00	M50	15.00	33.00	58.00	64.00	AA2 - 50 L
63 S	45.00	50.00	M63	15.00	35.00	67.00	74.00	AA2 - 63 S
63 L	50.00	55.00	M63	15.00	35.00	69.00	76.00	AA2 - 63 L
75 S	56.00	62.00	M75	15.00	35.00	78.00	87.00	AA2 - 75 S
75 L	59.00	65.00	M75	15.00	35.00	81.00	90.00	AA2 - 75 L
90 S	69.00	75.00	M90	20.00	50.00	100.00	112.00	AA2 - 90 S
90 L	72.00	78.00	M90	20.00	50.00	100.00	112.00	AA2 - 90 L
100 L	83.00	89.00	M100	22.00	50.00	112.00	125.00	AA2 - 100 L

<b>A-1 ELECTRICALS, RAJKOT, GUJARAT, INDIA</b> Website: <a href="http://www.a1electricals.com">www.a1electricals.com</a> Email: <a href="mailto:info@a1electricals.com">info@a1electricals.com</a>		NAME	SIGN	DATE
	DRN.	RP		
	CHKD.	JV		
	APPD.	NG		

**TITLE:** A2 TYPE BRASS CABLE GLAND KITS.

<b>DRAWING NO.:</b> AE/A2 CABLE GLAND KITS/15	<b>SCALE</b>	<b>WEIGHT</b>
	NTS	-

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	Under Armour Dia. A Max. mm	Overall Dia. B Max. mm	ISO Entry Thread		Approx Length from Shoulder	Hexagonal Size		
			Dia	Length	F mm	Across Flat G mm	Across Corners H mm	
			Dmm	E mm				
16 S	8.00	12.00	M16	9.00	20.00	20.00	22.00	ABW - 16 S
16 L	8.60	13.50	M16	9.00	20.00	20.00	22.00	ABW - 16 L
20 S	12.30	17.00	M20	9.00	20.00	22.00	24.00	ABW - 20 S
20 L	14.30	20.00	M20	9.50	20.00	25.00	27.00	ABW - 20 L
25 S	19.00	23.25	M25	9.50	22.00	31.00	34.00	ABW - 25 S
25 L	20.40	27.00	M25	9.50	22.00	33.50	37.00	ABW - 25 L
32 S	23.50	28.50	M32	9.50	25.00	35.00	38.50	ABW - 32 S
32 L	26.50	33.50	M32	9.50	25.00	40.00	45.00	ABW - 32 L
40 S	31.00	37.50	M40	12.50	25.00	44.50	49.00	ABW - 40 S
40 L	33.00	41.50	M40	12.50	25.00	48.50	54.00	ABW - 40 L
50 S	39.50	48.00	M50	12.50	28.00	56.50	63.50	ABW - 50 S
50 L	44.00	54.00	M50	12.50	30.00	61.00	68.00	ABW - 50 L
63 S	50.50	60.50	M63	14.00	33.00	69.50	77.00	ABW - 63 S
63 L	56.00	65.00	M63	14.00	33.00	75.50	84.50	ABW - 63 L
75 S	62.50	72.00	M75	14.00	40.00	83.50	93.00	ABW - 75 S
75 L	67.50	78.50	M75	14.00	40.00	89.50	99.00	ABW - 75 L
90 S	75.00	85.00	M90	20.00	48.00	100.00	110.00	ABW - 90 S
90 L	78.00	88.50	M90	20.00	48.00	102.00	115.00	ABW - 90 L
<b>A-1 ELECTRICALS, RAJKOT, GUJARAT, INDIA</b> Website: <a href="http://www.a1electricals.com">www.a1electricals.com</a> Email: <a href="mailto:info@a1electricals.com">info@a1electricals.com</a>					DRN.	RP		
					CHKD.	JV		
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<b>TITLE:</b> BW TYPE BRASS CABLE GLAND KITS.								
<b>DRAWING NO.:</b>					<b>SCALE</b>		<b>WEIGHT</b>	
AE/BW CABLE GLAND KITS/15					NTS		-	
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