



J.K.

Analytical Laboratory & Research Center



ISO/IEC 17025:2005, ISO 9001:2015 CERTIFIED LABORATORY

CERTIFICATE OF ANALYSIS

(Sample drawn and Submitted by the Party)

Date : 26/08/2020.

Ref. No : 08/20/18/83-94

Name Of The Party : Akshar Brass Industries

Party Address : Plot No 46,47,50,51, Survey No. 246,245, at Naghedi Industrial Area,
Jamnagar - 361004, Gujarat, India,

Name of The Sample : Brass Double Compression Cable Gland E1W Series

Date Of Receipt : 11/08/2020.

SAMPLE DECSRIPTION

BRASS DOUBLE COMPRESSION CABLE GLAND E1W Series

Sample ID No	Cable Gland Size	Identification Mark of Sample
1	E1W-20s	CABTEK BS6121 PT-1
2	E1W-20L	CABTEK BS6121 PT-1
3	E1W-25	CABTEK BS6121 PT-1
4	E1W-32	CABTEK BS6121 PT-1
5	E1W-40	CABTEK BS6121 PT-1
6	E1W-50s	CABTEK BS6121 PT-1
7	E1W-50L	CABTEK BS6121 PT-1
8	E1W-63s	CABTEK BS6121 PT-1
9	E1W-63L	CABTEK BS6121 PT-1
10	E1W-75s	CABTEK BS6121 PT-1
11	E1W-75L	CABTEK BS6121 PT-1
12	E1W-90	CABTEK BS6121 PT-1

Standard Applied

BS EN50262 : 1999	Cable Glands For Electrical Installations
IEC 62444:2010	Cable Glands for Electrical Installations

Sampling : 3 Samples of Largest and Smallest , And 1 samples of all other sizes of the same series

BS EN 50262:1999 Clause 5.4 : All Samples are were pre-conditioned in an oven at temperature 85°C for 168 hours followed by 24 hours at temperature at (20±5)°C and Relative Humidity (50±10)°C

For, JK Analytical Laboratory & Research Center

Authorised Signature

Note : No Client is entertain to visit our LAB. • All the clients are requested to send their sample through courier only.

16, Dharti Tenament, Opp, Labharth Society, Nr. Parth Society, Thakkarbapanagar Road, Ahmedabad-382350 Gujarat (India)
Mo.: +91-7405047474 • E-mail : jklab74@gmail.com • Website : www.jklaboratory.com • www.jkanalyticallab.com

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TEST FOR RESISTANCE TO IMPACT (Category 7)

Test Standard: BS EN 50262:1999 Clause 9.4 and IEC 62444:2010 Clause 9.5

Test Date: 24.08.2020

Test ID No	Striking Element Weight(Kg)	Drop Height (Meter)	Test Temperature (°C)	Observation	Results
1	1	1	-25	No Cracks or damages found on impact Areas	Satisfactory
2	1	1	-25	No Cracks or damages found on impact Areas	Satisfactory
3	1	1	-25	No Cracks or damages found on impact Areas	Satisfactory
4	1	1	-25	No Cracks or damages found on impact Areas	Satisfactory
5	1	1	-25	No Cracks or damages found on impact Areas	Satisfactory
6	1	1	-25	No Cracks or damages found on impact Areas	Satisfactory
7	1	1	-25	No Cracks or damages found on impact Areas	Satisfactory
8	1	1	-25	No Cracks or damages found on impact Areas	Satisfactory
9	1	1	-25	No Cracks or damages found on impact Areas	Satisfactory
10	1	1	-25	No Cracks or damages found on impact Areas	Satisfactory
11	1	1	-25	No Cracks or damages found on impact Areas	Satisfactory
12	1	1	-25	No Cracks or damages found on impact Areas	Satisfactory

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TEST FOR CABLE ANCHORAGE TEST

Test Standard: BS EN 50262:1999 Clause 9.3 and IEC 62444:2010 Clause 9.4

Test Date: 23.08.2020

Test ID No	Applied Weight for Cable Anchorage Test	Acceptance Criteria as per Specification	Observation	Results
1	130	Displacement Shall not Exceed 2mm	No Displacement Observed	Satisfactory
2	140	Displacement Shall not Exceed 2mm	No Displacement Observed	Satisfactory
3	250	Displacement Shall not Exceed 2mm	No Displacement Observed	Satisfactory
4	250	Displacement Shall not Exceed 2mm	No Displacement Observed	Satisfactory
5	250	Displacement Shall not Exceed 2mm	No Displacement Observed	Satisfactory
6	350	Displacement Shall not Exceed 2mm	No Displacement Observed	Satisfactory
7	400	Displacement Shall not Exceed 2mm	No Displacement Observed	Satisfactory
8	400	Displacement Shall not Exceed 2mm	No Displacement Observed	Satisfactory
9	400	Displacement Shall not Exceed 2mm	No Displacement Observed	Satisfactory
10	450	Displacement Shall not Exceed 2mm	No Displacement Observed	Satisfactory
11	450	Displacement Shall not Exceed 2mm	No Displacement Observed	Satisfactory
12	450	Displacement Shall not Exceed 2mm	No Displacement Observed	Satisfactory

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Test for Resistance to Excess Torque

Test Standard: BS EN 50262 : 1999 Clause 9.5

Test Date: 23.08.2020

Test ID No	Sample Description (Cable Gland)	Torque Applied (Nm)		Observation	Results
		Base Torque	1.5x Base Torque		
1	E1W-20s	26	40	No Defects Observed	Acceptable
2	E1W-20L	26	40	No Defects Observed	Acceptable
3	E1W-25	40	60	No Defects Observed	Acceptable
4	E1W-32	46	70	No Defects Observed	Acceptable
5	E1W-40	60	90	No Defects Observed	Acceptable
6	E1W-50s	73	110	No Defects Observed	Acceptable
7	E1W-50L	73	110	No Defects Observed	Acceptable
8	E1W-63s	86	130	No Defects Observed	Acceptable
9	E1W-63L	86	130	No Defects Observed	Acceptable
10	E1W-75s	93	140	No Defects Observed	Acceptable
11	E1W-75L	93	140	No Defects Observed	Acceptable
12	E1W-90	103	155	No Defects Observed	Acceptable

TEST FOR INGRESS PROTECTION (IP66) TEST

Test Standard: IEC 60529:2013

Test Date: 22.08.2020

Sr No	Name of the Test	IEC 60529 Standard Reference	Standard Specification	Equipment Used
1	Protection Against Solid Foreign Object Indicated by the first Characteristic numerals (Dust Test) IP6X	Cl13.4 Category 1	No talcum powder shall be allowed to deposit inside the enclosure at end of the test.	Dust Test Chamber for IP6X
2	Protection Against Solid Foreign Object Indicated by the first Characteristic numerals (Water Jet Nozzle) IPX6	Cl 14.2.6	No water shall be allowed to deposit inside the enclosure at end of the test.	Water Jet Nozzle 12.5mm diameter for IP X6

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The IP Test procedure is based on IEC 60529 (Degree of Protection Provided by enclosure IP Code) Cable Glands are specified mandrels were fitted into enclosures for test purpose. After completion of each test, sample was visually inspected.

Sr No	Sample Size	Name of Test	Observations
1	E1W-20s	IP6X	No ingress of dust observed inside the enclosure
		IPX6	No ingress of water observed inside the enclosure
2	E1W-20L	IP6X	No ingress of dust observed inside the enclosure
		IPX6	No ingress of water observed inside the enclosure
3	E1W-25	IP6X	No ingress of dust observed inside the enclosure
		IPX6	No ingress of water observed inside the enclosure
4	E1W-32	IP6X	No ingress of dust observed inside the enclosure
		IPX6	No ingress of water observed inside the enclosure
5	E1W-40	IP6X	No ingress of dust observed inside the enclosure
		IPX6	No ingress of water observed inside the enclosure
6	E1W-50s	IP6X	No ingress of dust observed inside the enclosure
		IPX6	No ingress of water observed inside the enclosure
7	E1W-50L	IP6X	No ingress of dust observed inside the enclosure
		IPX6	No ingress of water observed inside the enclosure
8	E1W-63s	IP6X	No ingress of dust observed inside the enclosure
		IPX6	No ingress of water observed inside the enclosure
9	E1W-63L	IP6X	No ingress of dust observed inside the enclosure
		IPX6	No ingress of water observed inside the enclosure
10	E1W-75s	IP6X	No ingress of dust observed inside the enclosure
		IPX6	No ingress of water observed inside the enclosure
11	E1W-75L	IP6X	No ingress of dust observed inside the enclosure
		IPX6	No ingress of water observed inside the enclosure
12	E1W-90	IP6X	No ingress of dust observed inside the enclosure
		IPX6	No ingress of water observed inside the enclosure

Results : The Cable Glands satisfy the requirements of IP66.

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Test for Electrical Current Values

Test Standard: IEC 62444: 2010 Cl 10.3.2

Test Date: 24.08.2020

Category A: is the minimum requirement, which applies in cases where a cable armour, other than steel wire, is the limiting factor.

Category B: is the medium requirement, which applies in cases where steel wire armoured cable is used and the system includes a high sensitivity method of protection against fault currents.

Test ID No	Sample Description (Cable Gland)	Electrical Current Values as per Standard		Observation	Results
		Category A minimum kA rms	Category B minimum kA rms		
1	E1W-20s	0.5	3.06	3.06	Category B is acceptable
2	E1W-20L	0.5	3.06	3.06	Category B is acceptable
3	E1W-25	0.5	4.0	4.0	Category B is acceptable
4	E1W-32	0.5	5.4	5.4	Category B is acceptable
5	E1W-40	0.5	5.4	5.4	Category B is acceptable
6	E1W-50s	1.8	7.2	7.2	Category B is acceptable
7	E1W-50L	1.8	7.2	7.2	Category B is acceptable
8	E1W-63s	2.3	10.4	10.4	Category B is acceptable
9	E1W-63L	2.3	10.4	10.4	Category B is acceptable
10	E1W-75s	2.8	10.4	10.4	Category B is acceptable
11	E1W-75L	2.8	10.4	10.4	Category B is acceptable
12	E1W-90	2.8	10.4	10.4	Category B is acceptable

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