TC-9106

QVC CERT
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TEST REPORT

Test Report No: QVC/TR/20250618/001	Page **1** of **7**
	Issue Date: 18/06/2025

ULR No:-	**TC910625000000109F**		
Applicant Name & Address:-	**KARMA INDUSTRIES** SHED NO K 1/238, SHANKAR TAKERI UDHYOG NAGAR, JAMNAGAR 361005, GUJARAT, INDIA		
Test Item:-	"Yukti" Make Brass Cable Gland		
Identification:-	Model(s) – KIW 01S, KIW 06 & KIW 014		
Discipline:-	Electrical	**Group:-**	Environmental Test Facility
Job order no:-	QVC/SAMPLE/250501/001	**Date of receipt:-**	01/05/2025
Serial no:-	----------		
Testing Laboratory Name & Address:	**QVC Certification Services Pvt. Ltd.** **2-B, Civil Lines, Yukti business centre, Jail Road, Ambala City-134003, Haryana, India.**		
Test specification:	IEC 60529:2013; IP 66 Test Specifications		
Test Result/ Statement of conformity:	***The test item passed the IP 66 test as per test specification(s).***		
Other Aspects:-	• The EUT is tested in the condition, it is received by the laboratory. • The EUT is tested after being fitted in Junction Box with appropriate cable.		

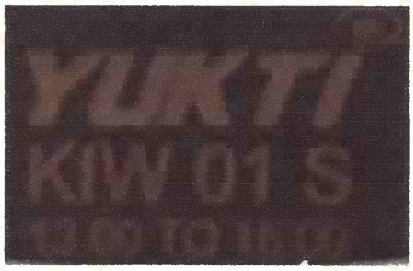
Note:- This test report relates to the submitted test sample and list of documents attached. Without permission of the testing laboratory this test report is not permitted to be duplicated in extract.

Tested by:	Reviewed by:	Approved by / Authorized Signatory:	Issued by:
		QVC Certification Services Pvt. Ltd.	
Vikram Singh (Testing Engineer)	**Vikas Kaushal (Technical Manager)**	**Amandeep Singh (Lab Head)**	**Siddharth Sharma (In-Charge CSC)**
Date: 18/06/2025	**Date: 18/06/2025**	**Date: 18/06/2025**	**Date: 18/06/2025**

Test Report IEC 60529:2013 Degrees of Protection provided by Enclosures (IP Codes)	
Report Reference No.:	QVC/TR/20250618/001
Date of issue:	18/06/2025
Total number of pages:	07
Testing Location:	☐ **Onsite** ☒ **At Lab**
Testing Location Address:	**QVC Certification Services Pvt. Ltd.** 2-B, Civil Lines, Yukti business centre, Jail Road, Ambala City-134003, Haryana, India.
Manufacturer 's Name:	**KARMA INDUSTRIES**
Manufacturer's Address	SHED NO K 1/238, SHANKAR TAKERI UDHYOG NAGAR, JAMNAGAR 361005,GUJARAT, INDIA
Test specification:-	
Standard:	IEC 60529:2013, IP 66 Test Specifications
Test procedure:	**Compliance Report**
Non-standard test method:	N/A
Test item description:	"Yukti" Make Brass Cable Gland
Trade Mark:	YUKTI®
Model/~~Type reference:~~	Model(s)- KIW 01S, KIW 06 & KIW 014
Ratings	Refer manufacturer specification(s)

Tested by:	Reviewed by:	Approved by / Authorized Signatory:	Issued by:
Vikram Singh (Testing Engineer)	Vikas Kaushal (Technical Manager)	Amandeep Singh (Lab Head)	Siddharth Sharma (In-Charge CSC)
Date: 18/06/2025	Date: 18/06/2025	Date: 18/06/2025	Date: 18/06/2025

Copy of Marking label:-

		
KIW 01S	**KIW 06**	**KIW 014**

TEST ITEM PARTICULARS.....:	
Sample Received Condition	Physical condition-Good
Classification of installation and use	As per Manufacturer's instructions
Appropriate Cable size(mm) to be used with EUT as declared	According to given data sheet by manufacturer
Ingress of protection declared	IP66

Table – List of Attachments

Attachments	Attachment description	No of pages in attachment
Attachment-1	Photo-Document	01 (Page No. 07)

General remarks:

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the issuing testing laboratory.

The laboratory is responsible for all the information provided in this Test Report, except for the information provided by the customer. The laboratory claims no responsibility for validity of test results against information supplied by the customer.

The Applicant/Manufacturer address, technical ratings, Product description, Model no. /Type Reference have been provided by customer in Service request.

Possible test case verdicts:	
- test case does not apply to the test object :	N/A
- test object does meet the requirement :	P (Pass)
- test object does not meet the requirement :	F (Fail)
Testing :	See Below
Date of receipt of test item :	01/05/2025
Date(s) of performance of tests :	01/05/2025 to 15/05/2025
Laboratory conditions:	See Below
Ambient Temperature:	15 to 35˚C
Ambient Humidity:	45 to 75 % Rh
Atmospheric Pressure:	968.2hpa

General Product Information:-

The Equipment Under Test (EUT) is a "YUKTI" make Brass Cable Gland with Model(s) – KIW 01S, KIW 06 & KIW 014. These testing has been performed on the representative models submitted by the customer. The complete product model(s) manufactured by the customer is attached in Annexure 1.

LIST OF INSTRUMENTS USED IN TESTING:

S. No.	Instrument Name	Range & L.C
1.	Dust Chamber (6X)	2kg/m^3, Talcum Powder, Conforms to IEC 60529:2013
2.	Water jet hose nozzle (X6) (Jet Nozzle Dia: 12.5mm)	Water delivery rate: 100 L/min
3.	Digital Vernier Caliper	Range: 0-200mm Accuracy: ±0.001inch
4.	IP6X Test Probe	Test Probe Diameter: 1mm & Length: 100mm Force Applied: 1N

Additional information(s):-

- Following information is provided by the customer:-
  1. Test Specifications: IP66 specifications as per IEC 60529:2013
  2. Sample ID/Model of the tested product/EUT – KIW 01S, KIW 06 & KIW 014.

- Abbreviation(s):-
  EUT: Equipment under test

Clause	Requirement-Test	Result	Verdict
12	**Test for protection against access to hazardous parts indicated by the first characteristic numeral.**	**See below**	**P**
12.1	Access probes to test the protection of person against access to hazardous parts as per table 6 of IEC 60529:2013	**Tested for IP6X (Protection against hazardous live parts)**	P
12.2	The access probe is pushed or inserted through any openings of the enclosure with the force specified in table 6 of IEC 60529:2013	**Tested with 1N force, for IP6X Probe (1mm dia. & 100mm length). Tested on all models submitted by manufacturer.**	P
12.3	The protection is satisfactory, if adequate clearance is kept between the access probe and hazardous parts.	**The full diameter of access probe doesn't penetrate through the EUT. Moreover no openings which could give access to the test probe are found in the EUT, when fitted with cable of appropriate size with enclosure.**	P
13	**Tests for protection against solid foreign objects indicated by the first characteristic numeral.**	**See below**	**P**
13.1	Test means and the main test conditions as per table 7 of IEC 60529:2013	**Tested for IP6X (Tested for protection against solid foreign objects)**	**P**
13.2	The object probe is pushed against any openings of the enclosure with the force specified in table 7.		N/A
13.3	Acceptance Criteria of Numerals 1, 2, 3, 4: Protection is satisfactory if the full diameter of the probe specified in table 7 does not pass through any opening.		N/A
13.4	Dust test for first characteristic numeral 5 & 6	**Talcum powder is used which is pass through a square meshed sieve the nominal wire dia of 50µm & nominal width of a gap between wire 75 µm. Dust particle size: < 75 µm**	**P**
13.5	Special conditions for first characteristic numeral 5		N/A
13.5.1	Test condition for first characteristic numeral 5		N/A

Clause	Requirement-Test	Result	Verdict
13.5.2	**Acceptance conditions for first characteristic numeral 5:** The protection is found satisfactorily if, on inspection, talcum powder has not accumulated in a quantity or location such that, as with any other kind of dust, it could interfere with the correct operation of the equipment or impair safety.		N/A
13.6	**Special Conditions for first characteristic numeral 6**		**P**
13.6.1	Test condition for first characteristic numeral 6	**Enclosure Category 1, Test duration: 2hrs Extraction Rate: 40 to 60 Volume/hr Maximum Depression: 2 kPa**	**P**
13.6.2	**Acceptance Conditions for first numeral 6:** The protection is satisfactory, if no dust is observable inside the enclosure after the test	**No dust particle or traces are found inside the enclosure fitted with EUT after the test.**	**P**
14	**Test for protection against water indicated by the second characteristic numeral**	**See below**	**P**
14.1	Test means and the main test conditions as per table 8 of IEC 60529:2013	**Tested for IPX6 (Water spray with jet hose nozzle)**	P
14.2	Test Conditions	Refer Cl. 14.2.6	-
14.2.1	Drip box, Enclosure on turntable		N/A
14.2.2	Drip box, Enclosure in 4 fixed positions of 15' tilt		N/A
14.2.3	Oscillating tube or spray nozzle, 60° from vertical		N/A
14.2.4	Oscillating tube or spray nozzle, 180° from vertical		N/A
14.2.5	6.3-mm nozzle, tested with a spraying nozzle, distance 2.5 m to 3 m, water flow rate 12.5 L/min		N/A
14.2.6	12.5 -mm nozzle, tested with a spraying nozzle, distance 2.5 m to 3 m, water flow rate 100 L/min	**Tested with water jet hose nozzle with water delivery rate 100 L/min. Test Duration: 3 min Jet Nozzle Dia: 12.5mm**	**P**
14.2.7	Temporary immersion between 0.15m and 1m		N/A
14.2.8	Continuous immersion subject to agreement		N/A
14.3	After testing in accordance with requirements of 14.2.1 to 14.2.8, the enclosure shall be inspected for ingress of water.	**No ingress of water is found inside the enclosure fitted with EUT after the test**	**P**

Conclusion: - The EUT (Equipment under Test) Cable glands: Make: YUKTI; Product Model(s): KIW 01S, KIW 06 & KIW 014 have been tested for IP 66 test specification(s) as per IEC 60529:2013. The EUT is found to have complied with the specified requirements.

Attachment No.1:

PHOTOGRAPHS:

Equipment under Test (EUT) View

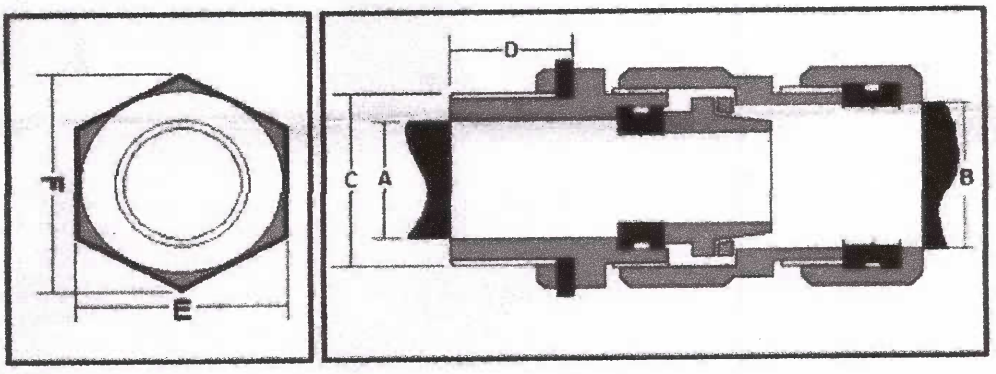
***** END OF TEST REPORT*****

ANNEXURE -1.

KARMA INDUSTRIES

Shed No. K 1 / 237,
Shankar Takeri Udhyognagar,
Jamnagar - 361 004, Gujarat, India.
Email: info@karmaind.com,
Web: www.karmaind.com,
Cell: +91 - 82009 20209
UR No.: UDYAM-GJ-10-0001162

TECHNICAL DETAIL



Size	Nipple Entry I/D. [A]	Cable Entry Hole [B]	Nipple Entry Thread [C]		Entry Thread Length [D]	A / F [E]	A / C [F]	Clamping Range	
			ET	MM				Min.	Max
KIW 01 SS	12.50	15.50	3/4"	M 20	15.00	22.00	25.00	8.00	12.00
KIW 01 S	14.75	18.00	3/4"	M 20	15.00	25.00	28.75	13.50	16.00
KIW 01	14.50	20.25	3/4"	M 20	15.00	28.00	31.75	16.50	18.00
KIW 01 A	14.50	20.25	1"	M 25	15.00	28.00	31.75	16.50	18.00
KIW 02	18.25	23.75	1"	M 25	15.00	31.25	36.00	18.50	20.00
KIW 02 A	18.25	23.75	3/4"	M 20	15.00	31.25	36.00	18.50	20.00
KIW 03	19.00	24.00	1"	M 25	15.00	31.50	36.00	20.00	23.00
KIW 04	20.50	27.25	1"	M 25	15.00	36.75	42.00	23.50	26.00
KIW 04 A	20.50	27.25	1.1/4"	M 32	15.00	36.75	42.00	23.50	26.00
KIW 05	26.00	31.50	1.1/4"	M 32	15.00	40.50	46.50	26.00	30.00
KIW 05 A	26.00	31.50	1.1/2"	M 40	15.00	40.50	46.50	26.00	30.00
KIW 06	32.00	34.75	1.1/2"	M 40	15.00	46.25	53.25	30.50	33.00
KIW 06 A	32.00	34.75	1.1/4"	M 32	15.00	46.25	53.25	30.50	33.00
KIW 07	31.25	38.75	1.1/2"	M 40	15.00	50.50	57.75	33.50	37.00

Note:
1. All above given dimension are in MM.
2. Due to continues R&D actual dimension may differ then above given dimension.

CONT....

KARMA INDUSTRIES

Shed No. K 1 / 237,
Shankar Takeri Udhyognagar,
Jamnagar - 361 004, Gujarat, India.
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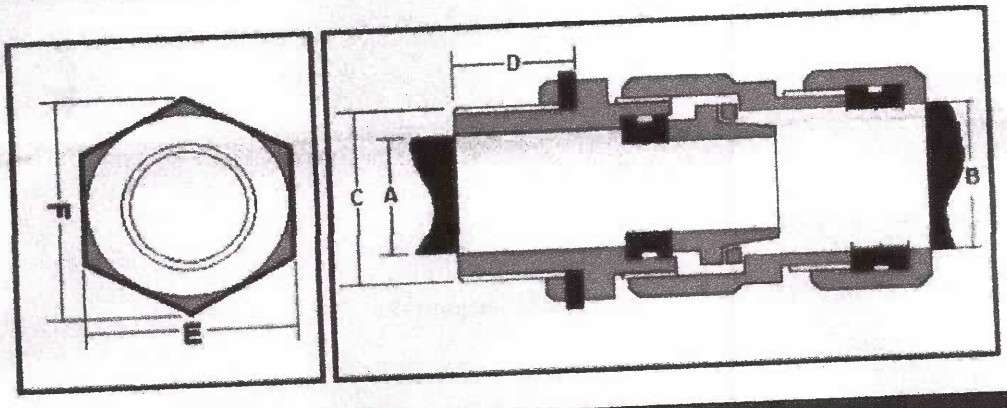
Web: www.karmaind.com,
Cell: +91 - 82009 20209
UR No.: UDYAM-GJ-10-0001162

TECHNICAL DETAIL



Size	Nipple Entry I/D. [A]	Cable Entry Hole [B]	Nipple Entry Thread [C]		Entry Thread Length [D]	A / F [E]	A / C [F]	Clamping Range	
			FT	MM				Min.	Max
KIW 08	39.00	43.50	2"	M 50	15.00	55.50	64.00	37.00	41.00
KIW 09	39.50	47.50	2"	M 50	15.00	58.50	67.00	41.50	46.00
KIW 010	45.25	53.50	2"	M 50	20.00	66.00	76.00	46.00	52.00
KIW 010 A	45.25	53.50	2.1/2"	M 63	20.00	66.00	76.00	46.00	52.00
KIW 011 S	56.25	57.75	2.1/2"	M 63	20.00	74.00	85.00	52.00	57.00
KIW 011	56.50	61.25	2.1/2"	M 63	20.00	79.00	91.00	56.50	60.00
KIW 012	65.00	67.75	3"	M 75	20.00	84.00	96.00	61.00	66.00
KIW 013 A	66.50	73.50	3"	M 75	20.00	90.00	104.00	66.50	72.00
KIW 013	74.50	80.00	3.1/4"	M 82	20.00	97.50	112.00	72.00	78.00
KIW 014	77.75	84.25	3.1/2"	M 90	20.00	104.50	120.50	78.00	84.50
KIW 015	90.25	95.00	4"	M 100	20.00	116.50	132.75	84.50	92.00
KIW 016	101.00	106.00	4.1/2"	M 110	20.00	129.00	148.00	92.50	104.00

Note:
1. All above given dimension are in MM.
2. Due to continues R&D actual dimension may differ then above given dimension.