

AN ISO/IEC 17025 ACCREDITED MATERIAL TESTING LAB

**UNIT - II,** W 361, TTC INDUSTRIAL AREA, MIDC, RABALE, NAVI MUMBAI - 400 701, INDIA. PH. : 91 (22) 2769 34 83 TELEFAX : 91 (22) 2769 3492 E-MAIL: rabale@elcalabs.com WEB: www.elcalabs.com

LAB ACCREDITED BY NABL CHEM.T / 296 & MECH.T / 297 ELEC.T / 2293

# **TEST REPORT**

<u>Customer:</u>	
Akshar Brass Industries	ELCA ID: E-378 to E388 Dated: 25/02/2015
Plot No: 4027, GIDC, Phase-III, Dared, Jamnagar – 361004. Gujarat, India.	Received via Customer Document : ABI/415/14-15 DT: - 25/01/2015

#### Sample Description:

Brass Cable Glands: Armoured - BW Cable Gland Size

ELCA ID No.	Cable Gland Size	Identification Mark of sample	
E-378	BW 20S	CABTEK BS6121 PT-1	
E-379	BW 20L	CABTEK BS6121 PT-1	
E-380	BW 25L	CABTEK BS6121 PT-1	
E-381	BW 32L	CABTEK BS6121 PT-1	
E-382	BW 40L	CABTEK BS6121 PT-1	
E-383 BW 50S		CABTEK BS6121 PT-1	
E-384	BW 50L	CABTEK BS6121 PT-1	
E-385	BW 63S	CABTEK BS6121 PT-1	
E-386 BW 63L		CABTEK BS6121 PT-1	
E-387 BW 75S		CABTEK BS6121 PT-1	
E-388 BW 75L		CABTEK BS6121 PT-1	

#### Standards Applied:

- Inhancai	
BS EN 50262:1999	Cable Glands for Electrical Installations
	Cable Glands for Electrical Installations

Sampling: 3 samples of the largest and smallest; and 1 sample of all other sizes of the same family/series.

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



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#### Continuation Sheet of Test report No: E-378 to E-388

#### **TEST FOR CABLE ANCHORAGE TEST**

Test Standard: BS EN 50262:1999 Clause 9.3 and IEC 62444:2010, Clause 9.4 Test Date: 19.02.2015

Applied Weight Elca for Cable No. Anchorage Test (N)		Acceptance Criteria as per Specification	Observation	Results
E-378	130	Displacement shall not exceed 2 mm	No displacement observed	Satisfactory
E-379	140	Displacement shall not exceed 2 mm	No displacement observed	Satisfactory
E-380	250	Displacement shall not exceed 2 mm	No displacement observed	Satisfactory
E-381	250	Displacement shall not exceed 2 mm	No displacement observed	Satisfactory
E-382	250	Displacement shall not exceed 2 mm	No displacement observed	Satisfactory
E-383	350	Displacement shall not exceed 2 mm	No displacement observed	· Satisfactory
E-384 400		Displacement shall not exceed 2 mm	No displacement observed	Satisfactory
E-385	400	Displacement shall not exceed 2 mm	No displacement observed	Satisfactory
E-386	400	Displacement shall not exceed 2 mm	No displacement observed	Satisfactory
E-387	450	Displacement shall not exceed 2 mm	No displacement observed	Satisfactory
E-388	E-388 450 Displacement shall not exceed 2 mm		No displacement observed	Satisfactory

# LABORATORIES

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#### Continuation Sheet of Test report No: E-378 to E-388

### **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: 17.02.2015

ELCA No.	Striking Element Weight (Kg)	Drop Height (Meter)	Test Temperature (°C)	Observation	Remarks
E-378	1	1	-25	No cracks or damages found on impact areas.	Satisfactory
E-379	1	1	-25	No cracks or damages found on impact areas.	Satisfactory
E-380	1	1	-25	No cracks or damages found on impact areas.	Satisfactory
E-381	1	1	-25	No cracks or damages found on impact areas.	Satisfactory
E-382	1	. 1	-25	No cracks or damages found on impact areas.	Satisfactory
E-383	1	1	-25	No cracks or damages found on impact areas.	Satisfactory
E-384	1	1	-25	No cracks or damages found on impact areas.	Satisfactory
E-385	1	1	-25	No cracks or damages found on impact areas.	Satisfactory
E-386	1	1	-25	No cracks or damages found on impact areas.	Satisfactory
E-387	1	1	-25	No cracks or damages found on impact areas.	Satisfactory
E-388	1	1	-25	No cracks or damages found on impact areas.	Satisfactory



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### TEST FOR RESISTANCE TO EXCESS TORQUE

Test Standard: BS EN 50262:1999 Clause 9.5

Test Date: 11.02.2015

ELCA No. Sa	Sample Description	Torque Applied (Nm)		Remarks
		(Cable Gland)	Base Torque	1.5 x Base torque
E-378	BW 20S	26	40	No Defects Observed. Acceptable
E-379	BW 20L	26	40	No Defects Observed. Acceptable
E-380	BW 25L	40	60	No Defects Observed. Acceptable
E-381	BW 32L	46	70	No Defects Observed. Acceptable
E-382	BW 40L	60	90	No Defects Observed. Acceptable
E-383	BW 50S	73	110	No Defects Observed. Acceptable
E-384	BW 50L	73	110	No Defects Observed. Acceptable
E-385	BW 63S	86	130	No Defects Observed. Acceptable
E-386	BW 63L	86	130	No Defects Observed. Acceptable
E-387	BW 75S	93	140	No Defects Observed. Acceptable
E-388	BW 75L	93	140	No Defects Observed. Acceptable

#### **TEST FOR INGRESS PROTECTION (IP 2X TEST)**

Test Standard: IEC 60529:2013

Test Date: 18.02.2015

Sr. No.	Name of the Test	Standard Reference	Standard Specification	Equipment Used
1.	Protection against Solid Foreign object indicated by the first characteristic numerals IP 2X	Cl. 13.2	Full diameter of the probe shall not pass through any opening	Object probe 12.5 mm dia. Rigid Sphere.



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FMEND test places and is the second of Pieces of Protection provided by enclosures IP Code c. T/2293

Cable glands with specified mandrels were fitted into enclosures for test purpose. After completion of each test, sample was visually inspected.

S.no.	ELCA ID/ sample size	Name of test	Observations
1.	E-378 BW 20S	IP2x	Full diameter of probe did not pass through any opening.
	DVV 203		opening.
2.	E-379	IP2X	Full diameter of probe did not pass through any
	BW 20L	Productions:	opening.
3.	E-380	IP2X	Full diameter of probe did not pass through any
	BW 25L		opening.
4.	E-381	IP2X	Full diameter of probe did not pass through any
	BW 32L		opening.
5.	E-382	IP2X	Full diameter of probe did not pass through any
	BW 40L		opening.
6.	E-383	IP2X	Full diameter of probe did not pass through any
0.	BW 50S	IF 2A	opening.
7.	E-384	IP2X	Full diameter of probe did not pass through any
	BW 50L		opening.
8.	E-385	IP2X	Full diameter of probe did not pass through any
	BW 63S		opening.
			Company of the Charles Charles
9.	E-386 BW 63L	IP2X	Full diameter of probe did not pass through any opening.
10.	E-387	IP2X	Full diameter of probe did not possibly out have
10.	BW 75S	IPZX MARKET	Full diameter of probe did not pass through any opening.
11.	E-388	IP2X	Full diameter of probe did not pass through any
	BW 75L		opening.

Checked by:

------END -----OF-----REPORT

for ELCA LABORATORIES

(Authorized Signatory) N. Kalyan / Kartik lyer

Proprietor/ C.E.O