

한국전기안전공사 안전인증센터 KESCO Safety Test Center Tel : 063-716-2386 Fax : 063-716-9681		시험 성적서 TEST REPORT 성적서 번호: STC-B20-064 (Report No.) 페이지(Page of) : (1)/(총 6)			
1. 신청자 Customer ○ 기 관 명 : 오리엔스코리아(주) Name ○ 주 소 : 인천 연수구 송도미래로30 스마트밸리 D동 1010호 Address					
2. 시험성적서 용도 : 참고시험 Use of Test Report					
3. 시험대상 품목 : 스크류셀 와이어 커넥터 Product ○ 모델명 : SCREWSEAL Model ○ 제조 번호: 해당없음 Serial No.					
4. 시험 기간 : 2020. 09. 15. ~ 2020. 10. 15. Test Period					
5. 시험 방법/항목 : IEC 60529 Ed.2.2: 2013 / IP66 Test Method/Item					
6. 시험 결과 : 적합 Test Result					
확 인 Confirmation		작성자 Tested by 성명 이 요 준 (서명) Name Y. J. Lee Signature		승인자 Approved by 성명 백 영 기 (서명) Name Y. G. Baek Signature	
		직책: 기술책임자 Position			
☐ 이 시험결과는 의뢰자가 제시한 시료 및 시료명에만 한정됩니다. The results shown in this test report refer only to the sample tested unless otherwise stated.					
☐ 이 시험결과는 KS Q ISO/IEC 17025 및 KOLAS 인정과 관련이 없음을 밝힙니다. The results shown in this test report are not related to KS Q ISO/IEC 17025 and KOLAS accreditation.					
☐ 안전인증센터에서 발급한 성적서는 원본만 유효하며, 복사본은 인정하지 않습니다. The original document produced by KESCO Safety Test Center is valid and the copy of this document is invalid					
2020. 10. 15. 한국전기안전공사 안전인증센터장 The head of Korea Electrical Safety Corporation Safety Test Center 					
☐ 55365 전라북도 완주군 이서면 오공로 12 12, Ogong-Ro, Iseo-Myeon, Wanju-Gun, Jeollabuk-Do, 55365, Korea					

Test Report

IEC 60529 Ed. 2.2: 2013

Safety Test Center

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Customer: 오리엔스코리아(주)

Product: 스크류셀 와이어 커넥터

Model: SCREWSEAL

1. 시험 환경 (Test Environment)

- 온도 (Temperature): $(18 \pm 1) ^\circ\text{C}$, 상대습도 (Relative Humidity): $(45 \pm 3) \%$
- 시험장소 (Location): Dust Chamber, IP 주수 시험장 (IP Water Test Lab.)

2. 시험에 사용된 장비 명세 (List of Used Equipment)

장비번호 Equipment	사용장비명 Description	제조회사 Manufacturer	형식 Model	제조번호 Serial No.	교정유효일자 Calibration Valid Until
A-26-04	HYGROMETER	SATO	HIGHEST2	74208	2021.04.22.
A-74-01	Dust Chamber	PTL	P14	5040172	2021.08.15.
A-75-04	Jet nozzle	HISCO	-	Y2086737	2021.03.20.
B-03-05	KOMELON	KMC-32D	10 M	L11041901	2021.04.25.

3. 시험일자 (Test Date)

Date of receipt of test item.....:	2020.09.15.
Test Period.....:	2020.09.15. ~ 2020.10.15.

4. 시험 조건 (Test Condition): IP66

5. 시험 결과 (Test Results): Pass

1) Dust Test

Test results for dust protection (first characteristic numeral 6)

Description of test:

1. Degree of protection.

No ingress of dust

2. Category for enclosure;

☐ Category 1☒ Category 2☐ Category 1 and Category 2

3. Testing method:

- The talcum powder used shall be able to pass through a square-meshed sieve the nominal wire diameter of which is $50 \mu\text{m}$ and the nominal width between wires was $75 \mu\text{m}$

- The amount of talcum powder was 2 kg per cubic meter of the chamber volume.

- The amount of talcum powder to be used is 2 kg per cubic metre of the test chamber volume.

☐ If an extraction rate of 40 to 60 volumes per hour is obtained the duration of the test is 2 h

☐ If, with a maximum depression of 2 kPa (20 mbar), the extraction rate is less than 40 volumes per hour, the test is continued until 80 volumes have been drawn through, or a period of 8 h has elapsed.

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4. Test condition

The enclosure shall be deemed category 1 whether reductions in pressure below the atmospheric pressure are present or not.

5. Acceptance conditions

The protection is satisfactory if no deposit of dust is observable inside the enclosure at the end of the test.

6. Test result: Pass

2) Water Test

Test results for water protection (second characteristic numeral 6)

Description of test

1. Degree of protection.

Water from projected by a nozzle against the enclosure from any direction shall have no harmful effect

2. Testing method:

- The test was made by spraying the enclosure from all practicable directions with a stream of water from a standard test nozzle
- Nozzle internal diameter: 12.5 mm
- Delivery rate: 100 L/min $\pm$ 5 %
- Water pressure: to be adjusted to achieve the specified delivery rate
- Test duration per square metre of enclosure surface area likely to be sprayed: 1 min
- Minimum test duration: 3 min
- Distance from the nozzle to the enclosure surface: between 2.5 m and 3 m

3. Acceptance conditions:

Dielectric strength test: N/A

☒ No ingress of water

☐ If any water has entered, It shall not;

- ☐ be sufficient to interfere with the correct operation of the equipment or impair safety;
- ☐ deposit on insulation parts where it could lead to tracking along the creepage distances;
- ☐ reach live parts or windings not designed to operate when wet;
- ☐ accumulate near the cable end or enter the cable if any.

4. Test result: Pass

Photo Documentation

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Customer: 오리엔스코리아(주)

Product: 스크류셀 와이어 커넥터

Model: SCREWSEAL



[Specimen]

1. Test Condition

- 1) Dust test for first characteristic numeral 6
 - Duration of time: 8 h
- 2) Water test for second characteristic numeral 6
 - Internal diameter of the nozzle: 12.5 mm
 - Delivery rate: 100 L/min
 - Duration of time: 3 min

2. Applicant & Model

- 오리엔스코리아(주) / SCREWSEAL

Photo Documentation

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Customer: 오리엔스코리아(주)

Product: 스크류셀 와이어 커넥터

Model: SCREWSEAL

3. Test Figure

1) Dust Test



[Before the Test]



[After the Test]

Photo Documentation

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Customer: 오리엔스코리아(주)

Product: 스크류셀 와이어 커넥터

Model: SCREWSEAL

2) Water Test



[Before the Test]



[During the Test]