



Company Profile for ORIENS KOREA



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Safety First !

Introduction



Company name : ORIENS KOREA CO., LTD

CEO : S.P. LEE

Establishment : May 1, 2004

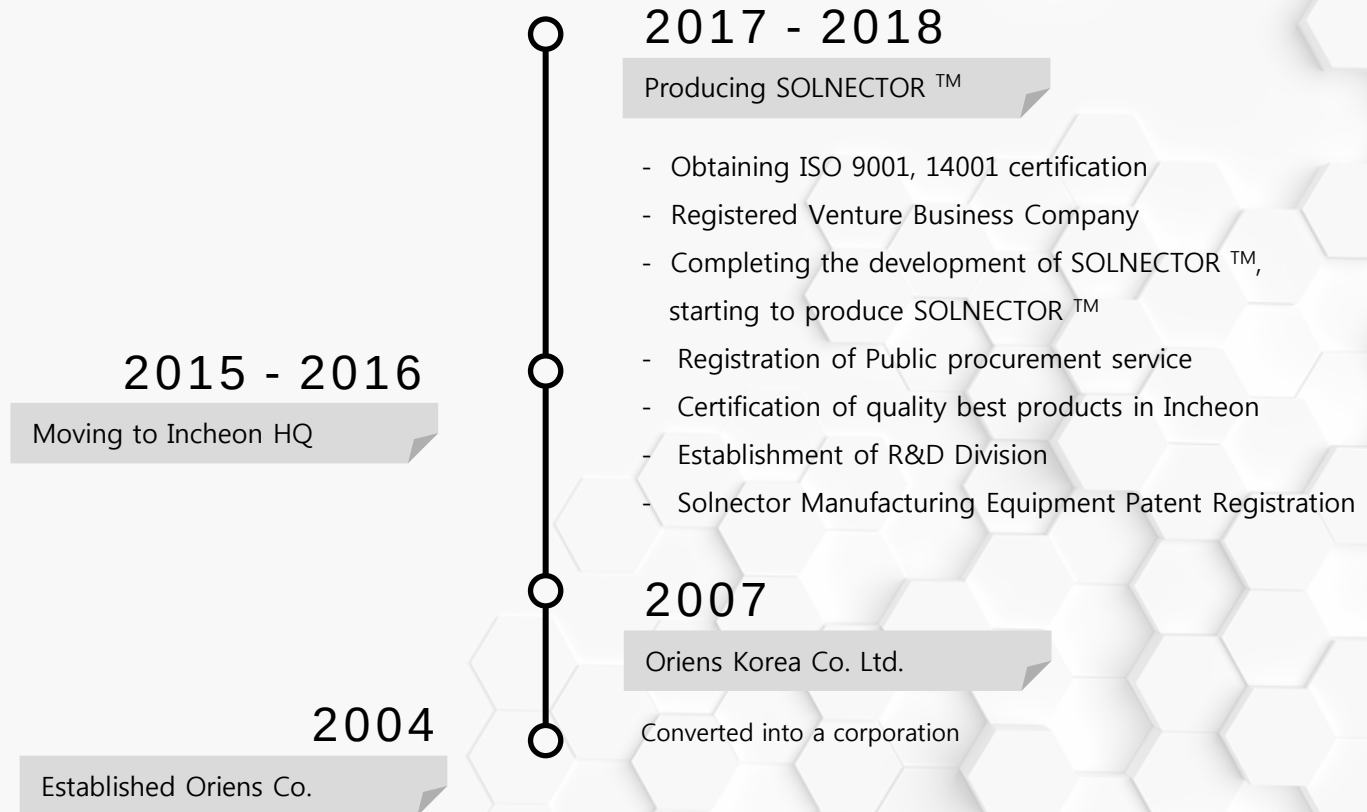
**Business item : Electrical Interconnect Products
SOLNECTOR™**

Capital : KRW 125,000,000

**Address : D-1010, Song-do Smart-valley, 30, Song-do mirea-ro,
Yeonsu-gu, Incheon, Korea**

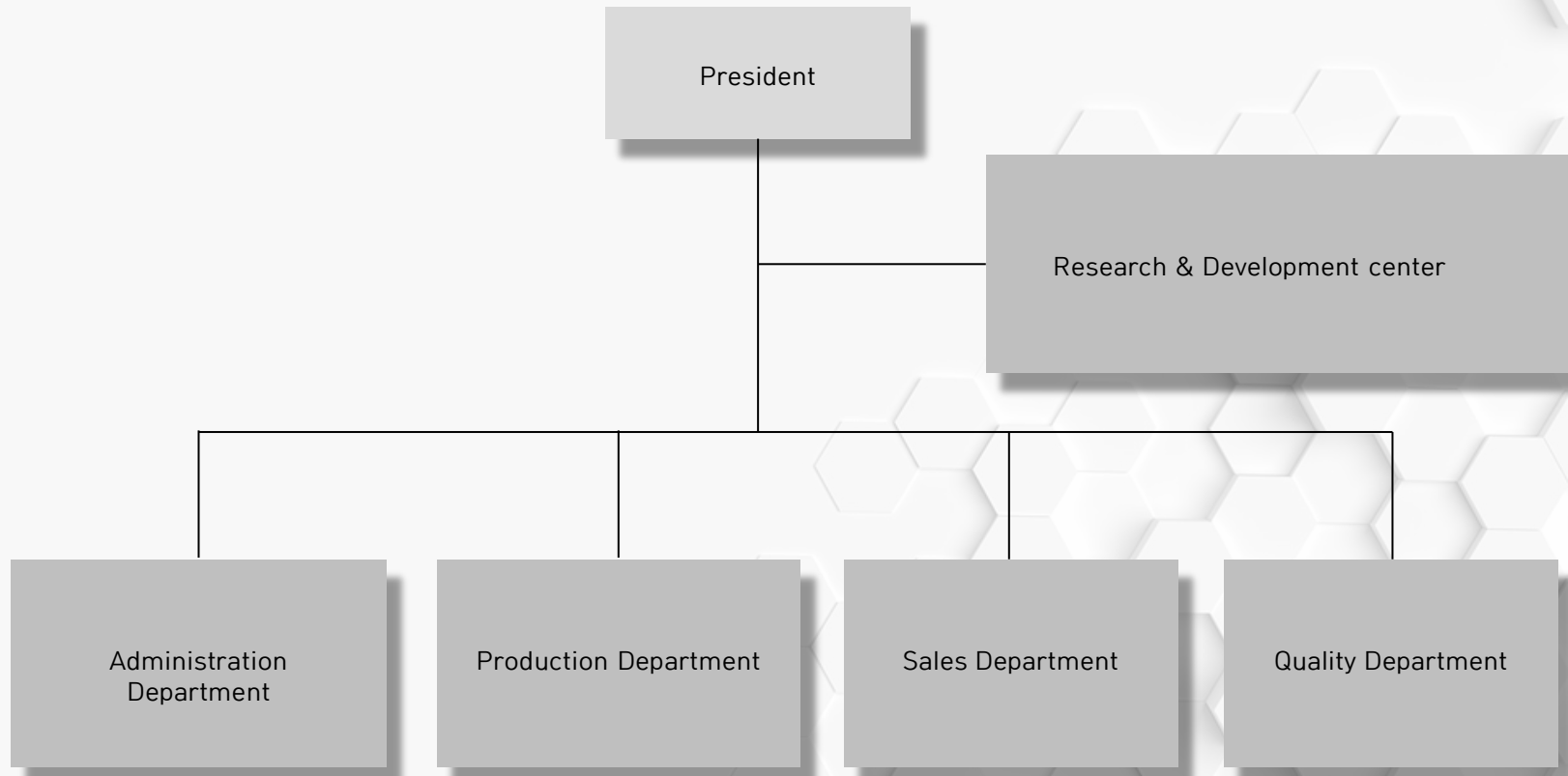
Capacity : SOLNECTOR™ : 1.0 Million/Item/Month

History



Safety First !

Organization



Safety First !

Products

SOLNECTOR™
SOLDER SLEEVE CONNECTOR



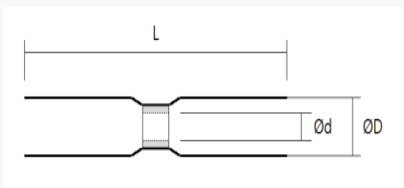
SOLDER + SEAL

The SOLNECTOR™ produced by ORIENS KOREA Co., Ltd. is an integral part of heat-shrinkable tube coated with adhesive and flux-coated solder preform.

It is designed that no required of special soldering work when connecting wires by anyone easily with only hot air or torch.

Hot melt adhesive is coated inside to prevent moisture penetration and is completely protected from dust and other contaminants.

Specification

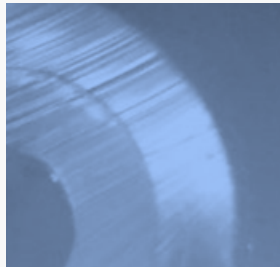
PART NO.	COLOR					CABLE SIZE A.W.G (mm ²)
			DIMENSIONS			
			HEAT SHRINK TUBE		SOLDER	
			L	I.D (ØD)	I.D (Ød)	
OR-B-19		White	26	3.1	1.9	26 – 24 (0.25 - 0.34)
OR-B-29		Red	36	4.4	2.9	22 – 18 (0.5 - 1.0)
OR-B-47		Blue	36	6.5	4.7	16 – 14 (1.5 - 2.5)
OR-B-62		Yellow	42	8.0	6.2	12 – 10 (4.0 - 6.0)

Safety First !

Construction



Translucent heat shrinkable sleeve
(with hot melt adhesive)

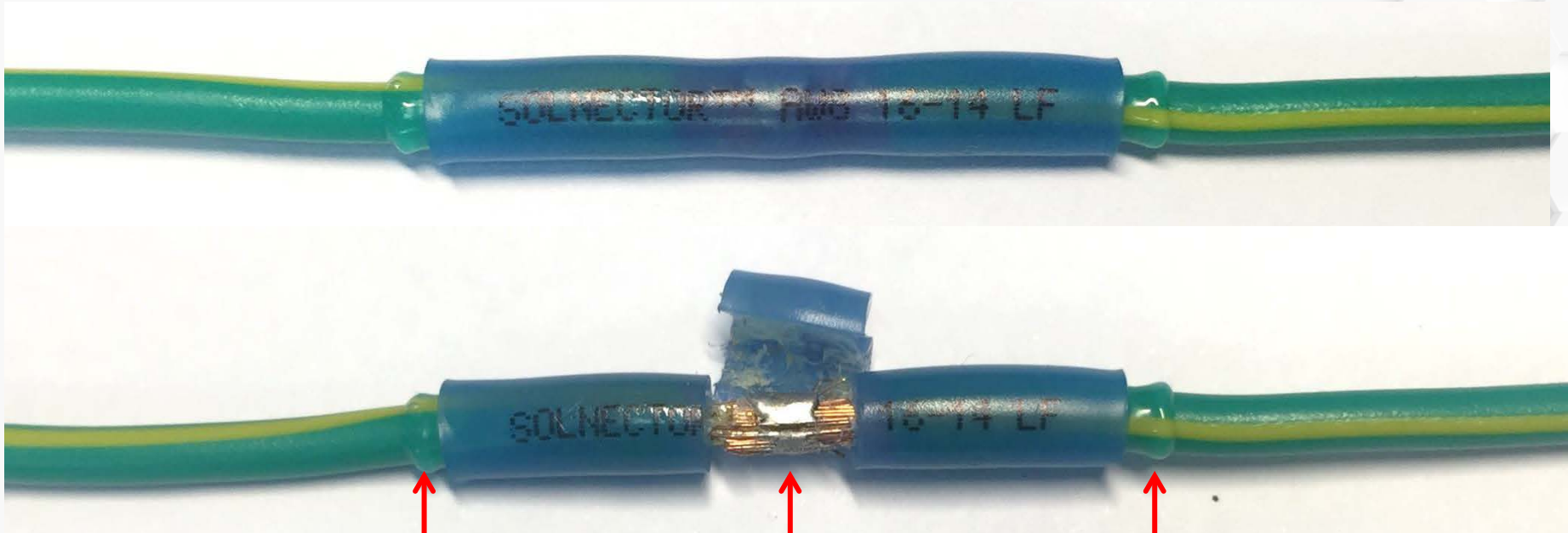


Fluxed preform solder



Safety First !

Connection Result



Adhesive

solder

Adhesive

Safety First !

How to use SOLNECTOR



Safety First !

Application 1

Automotive Harness



Safety First !

Application 2

Signboard



Safety First !

Application 3

Streetlight



Safety First !

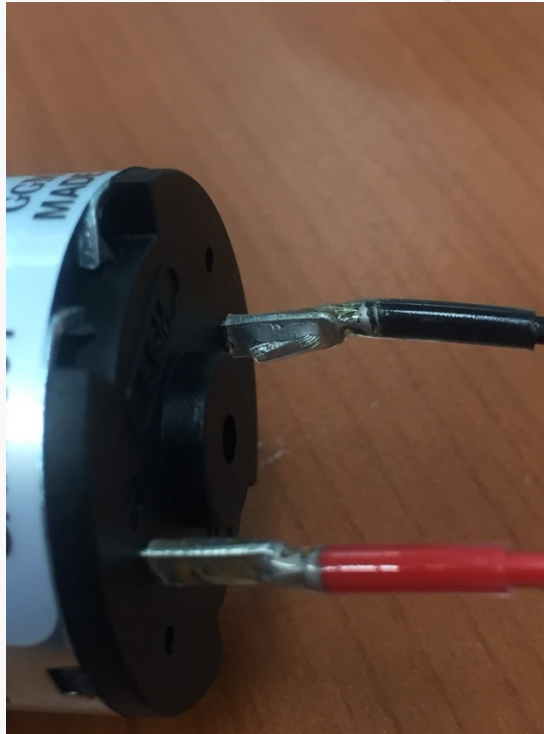
Application 4

Wire Terminal



Application 5

Pin to Wire (motor etc.)



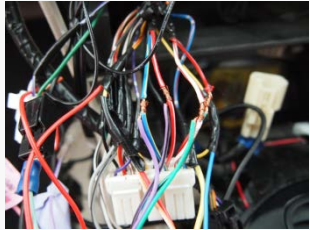
Application 6

Air conditioner system



Safety First !

Product comparison



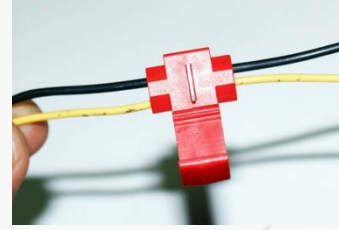
Insulating tape



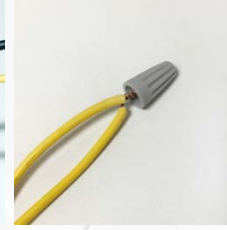
Heat shrink tube



Close-end
connector



Non-striping
Extended
connector



Wire nut



Push type wire
connector

VS



Insulation



Waterproof



conductivity

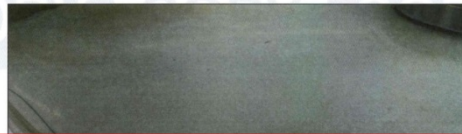


Outdoor use

Test 1

IP68 TEST

KE^{SC}CO 한국전기안전공사 안전인증센터 KESCO Safety Test Center Tel : 82-31-240-6000 Fax : 82-31-240-6000		TEST REPORT Report No. : STC-B17-215 Page of : (1) / (6)	KE^{SC}CO
1. Customer ○ Name : ORIENS KOREA CO., LTD. ○ Address : D-1010, Songdo Smartvalley 30, Songdomirae-ro, Yeonsu-gu, Incheon, Korea			
2. Use of Test Report : Reference			
3. Product : SOLNECTOR (Solder Sleeve Connector) ○ Model : SOLNECTOR			
5. Test Method/Item : IEC 60529 Ed. 2.2: 2013 / IP68 (1 m, 60 min)			
6. Test Result : Pass			
Conformation	Tested by Name B. R. Kim Signature	Approved by Technical Manager Name J. K. Lee Signature	
☐ The results shown in this test report refer only to the sample tested unless otherwise stated. ☐ The original document produced by KESCO Safety Test Center is valid and the copy of this document is invalid.			
2017. 11. 20. The head of Korea Electrical Safety Corporation Safety Test Center			
☐ 21, Jeongjo-Ro, 99Bboon-Gil, Jangnan-Gu, Suwon-City, Gyeonggi-Do, 16270, Korea			
QP-5101-01(7)	안전인증센터	A4(210mm×297mm)	

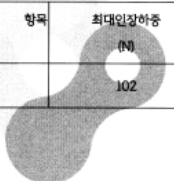
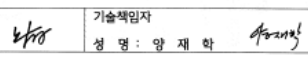
KE^{SC}CO Photo Documentation Report No. : STC-B17-215 Page No. : 6 / 6		KE^{SC}CO Safety Test Center Customer: ORIENS KOREA CO., LTD. Product: SOLNECTOR (Solder Sleeve Connector) Model: SOLNECTOR
2) Water Test		
		
[During the Test]		
		
[During the Test]		

Safety First !

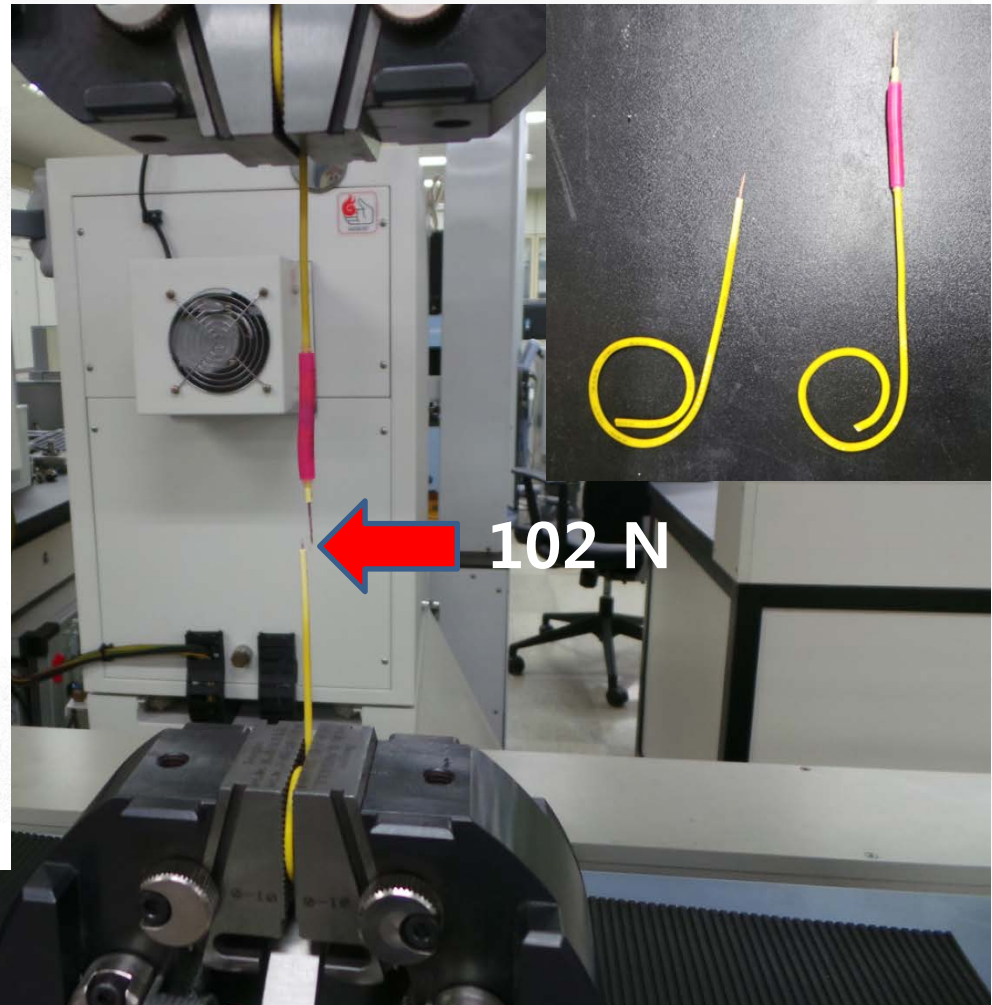
Test 2

Tensile strength test

시험 성적서

한국생산기술연구원		성적서 번호 : C17N02-0189	 KITECH 한국생산기술연구원						
인천광역시 연수구 갯벌로 156 (송도동) (Tel : 032 850 0488 Fax : 032 850 0489)		페이지 (1)/(총 1)							
1. 의뢰자 ○ 업체명 : 오리엔스 코리아㈜ ○ 주 소 : 인천시 연수구 송도미래로 30 송도스마트밸리 D동 1010호									
2. 성적서 용도 : 품질관리용									
3. 시료명 : 1. Solder Sleeve Connector									
4. 시험기간 : 2017. 07. 18. ~ 2017. 07. 21.									
5. 시험속도 : 5 mm/min									
6. 시험결과 :									
<table border="1"><thead><tr><th>시료명</th><th>항목</th><th>최대인장하중 (N)</th></tr></thead><tbody><tr><td>1-1</td><td></td><td>102</td></tr></tbody></table>		시료명	항목	최대인장하중 (N)	1-1		102		
시료명	항목	최대인장하중 (N)							
1-1		102							
여 시험결과는 의뢰자가 제시한 시료 및 시료명에만 한정됩니다.									
<table border="1"><tr><td rowspan="2">확 인</td><td>작성자</td><td>기술책임자</td></tr><tr><td>성 명 : 이근호</td><td>성 명 : 양재학</td></tr></table>		확 인	작성자	기술책임자	성 명 : 이근호	성 명 : 양재학			
확 인	작성자		기술책임자						
	성 명 : 이근호	성 명 : 양재학							
이 시험성적서는 용도 이외의 사용을 금하며 기타 상품광고, 법정소송 등의 목적으로 사용할 수 없음.									
2017. 07. 21.									
한국생산기술연구원장									

FPT11-3A(17) A4(210×297) KITECH



Test 3

RoHS Test



Test Report No. F690101/LF-CTSAYAA17-55819 Issued Date : 2017. 10. 23 Page 1 of 5

ORIENS KOREA CO.,LTD
D-1010Song-do Smart-valley 30, Songdomirae-ro
Yeosu-gu, Incheon
Korea



The following sample(s) was/were submitted and identified by/on behalf of the client as:-

SGS File No. : AYAA17-55819
Product Name : SOLNECTOR
Item No./Part No. : N/A
Client Reference Data : OR-B-19, OR-B-29, OR-B-47, OR-B-62
Received Date : 2017. 10. 18
Test Period : 2017. 10. 18 to 2017. 10. 23
Report Comments : By the applicant's request, item No.s/part No.s & client reference information are stated/added on report.
Test Results : For further details, please refer to following page(s)

SGS Korea Co., Ltd.


Jeff Jang / Chemical Lab Mgr



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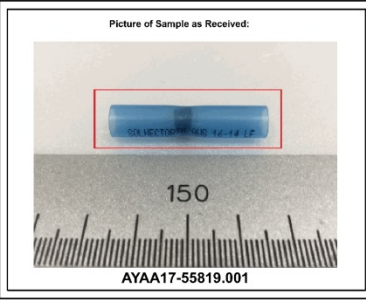
F401 Version 4

SGS Korea Co., Ltd. 332, The C valley, 76, 33-ro, Dongan-gu, Anseong-si, Gyeonggi-do, Korea 14117
T +82 (0)2-4600-9000 F +82 (0)2-4600-9001 info@sgs.com
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Test Report No. F690101/LF-CTSAYAA17-55819 Issued Date : 2017. 10. 23 Page 4 of 5

Picture of Sample as Received:



AYAA17-55819.001



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F401 Version 4

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Member of the SGS Group (Société Cotraitée de Services)

Test 4

Dielectric Voltage Withstand Test



샘플 번호	5KV - 1분	10KV - 1분	15KV 1분	15KV 5분
1	N.D (Pass)	N.D (Pass)	N.D (Pass)	N.D (Pass)
2	N.D (Pass)	N.D (Pass)	N.D (Pass)	N.D (Pass)
3	N.D (Pass)	N.D (Pass)	N.D (Pass)	N.D (Pass)
4	N.D (Pass)	N.D (Pass)	N.D (Pass)	N.D (Pass)
5	N.D (Pass)	N.D (Pass)	N.D (Pass)	N.D (Pass)

- UL 224 Test Min. 2,500 V/Min

Certification 1

ISO 9001:2015

International Certification Registrar - International Certification Registrar



Certificate of Registration

This is to certify that :
ORIENS KOREA CO., LTD.
 D-1010, 30, Songdomirae-ro, Yeosu-gu, Incheon, Korea

Has been assessed by International Certification Registrar Ltd., in respect of their Quality Management Systems and found to comply with

ISO 9001:2015

Approval is hereby granted for registration providing the rules and conditions relating to certification are observed at all times.

Certification Scope
 Design, Development, Manufacture and Sale of Electrical Wire and Cable Interconnect Products

Certificate Issue Date : 05th January 2018 Initial Issued Date : 10th January 2017
 Expiration Date : 04th January 2021 Certificate No. : Q134717

The Seal of ICR Limited was here to affixed in the presence of :

 President





This certificate is valid only when the conditions of registration are observed and it is subject to audit once a year. You can only be re-registered if you comply with the conditions of registration. If you can not maintain the conditions, the certificate shall be returned to ICR.

ISO 14001:2015

International Certification Registrar - International Certification Registrar



Certificate of Registration

This is to certify that :
ORIENS KOREA CO., LTD.
 D-1010, 30, Songdomirae-ro, Yeosu-gu, Incheon, Korea

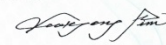
Has been assessed by International Certification Registrar Ltd., in respect of their Environmental Management Systems and found to comply with

ISO 14001:2015

Approval is hereby granted for registration providing the rules and conditions relating to certification are observed at all times.

Certification Scope
 Design, Development, Manufacture and Sale of Electrical Wire and Cable Interconnect Products

Certificate Issue Date : 05th January 2018 Initial Issued Date : 10th January 2017
 Expiration Date : 04th January 2021 Certificate No. : E063217

The Seal of ICR Limited was here to affixed in the presence of :

 President





This certificate is valid only when the conditions of registration are observed and it is subject to audit once a year. You can only be re-registered if you comply with the conditions of registration. If you can not maintain the conditions, the certificate shall be returned to ICR.

Certification 2

Certificate of Venture Business

Certificate No : 20170401723

Certificate of Venture Business

Company : ORIENS KOREA CO., LTD.
Representative : LEE SANG PIL
Company Address : D-1010, SONG-DO SMART-VALLEY 30, SONGDOMIRAE-RO, YEONSU-GU, INCHEON, KOREA
Type of Venture : Technology-loan Approved Company
Appraiser : Small & Medium Business Corporation
Valid Date : Aug. 28, 2017 ~ Aug. 27, 2019

This is to certify that the above-mentioned company is Venture business in accordance with Article 25 of the Act on Special Measures for the Promotion of Venture Business.

Day Month Year
28 Aug. 2017

 President
Small & Medium Business Corporation
The Republic of Korea



Certificate of Endorsement in Incheon



CERTIFICATE of ENDORSEMENT

Certificate No : 2018 - 18

Manufacturer : orienskorea co., ltd.(CEO: Lee, Sang Pil)

Address : D-1010, Songdo Smartvalley 30, Songdomirea-ro, Yeonsu-gu, incheon, Korea

Product : Solnector (Solder Sleeve Connector)

Effective : July 24, 2018. ~ July 23, 2021.

I hereby endorse **Solnector (Solder Sleeve Connector)** manufactured by **orienskorea co., ltd.** of Incheon, as representing the highest standards of service and quality excellence.

Presented : July 24, 2018.


Park Nam-Chun
Mayor
Incheon Metropolitan City
Republic of Korea

Intellectual Property

Certificate of Patent



CERTIFICATE OF PATENT

Patent Number 10-1865159

Application Number 10-2017-0019959

Filing Date 2017. 02. 14.

Registration Date 2018. 05. 31.

Title of the Invention
SOLDER SLEEVE CONNECTOR ASSEMBLY SYSTEM

Patentee
ORIENS KOREA(135511-*****)
D-1010, 30, Songdomirae-ro, Yeosu-gu, Incheon, Republic of Korea (Songdo-dong, Songdo BRC smartvalley Knowledge Industry Center)

Inventor
Inventors are filled out in a registration page.

This is to certify that, in accordance with the Patent Act, a patent for the invention has been registered at the Korean Intellectual Property Office.


특허청
 Korean Intellectual Property Office

2018. 06. 14.
 COMMISSIONER,
 KOREAN INTELLECTUAL PROPERTY OFFICE
성찬모


Check your current registration with QR code

Certificate of Trademark Registration



상표등록증
CERTIFICATE OF TRADEMARK REGISTRATION

등록 제 40-1334342 호
Registration Number

출원번호 제 40-2017-0026696 호
Application Number

출원일 2017년 03월 02일
Filing Date

등록일 2018년 02월 26일
Registration Date

상표권자 Owner of the Trademark Right
오리엔스코리아 주식회사(135511-*****)
인천광역시 연수구 송도미래로 30, 디동1010호(송도동, 송도BRC스마트밸리 지식산업센터)

상표를 사용할 상품 및 구분
제 09 류
산업용 솔더 솔리브 커넥터와 전선을 접속기용 6건

SOLNECTOR

위의 표장은 「상표법」에 따라 상표등록원부에 등록되었음을 증명합니다.
This is to certify that, in accordance with the Trademark Act, a trademark has been registered at the Korean Intellectual Property Office.


특허청
 Korean Intellectual Property Office

2018년 02월 26일
 특허청장
 COMMISSIONER,
 KOREAN INTELLECTUAL PROPERTY OFFICE
성찬모

Certificate of Design Registration



디자인등록증
CERTIFICATE OF DESIGN REGISTRATION

등록 제 30-0945287 호
Registration Number

출원번호 제 30-2017-0006821 호
Application Number

출원일 2017년 02월 14일
Filing Date

등록일 2018년 02월 19일
Registration Date

등록의 구분 심사 등록
(EXAMINED REGISTRATION)

출품류 Class
제15류
디자인의 대상이 되는 물품 Product
솔더 솔리브 커넥터 제조 장치

디자인권자 Owner
오리엔스코리아 주식회사(135511-*****)
인천광역시 연수구 송도미래로 30, 디동1010호(송도동, 송도BRC스마트밸리 지식산업센터)

창작자 Creator
등록사찰란에 기재

위의 디자인은 「디자인보호법」에 따라 디자인등록원부에 등록되었음을 증명합니다.
This is to certify that, in accordance with the Design Protection Act, a design has been registered at the Korean Intellectual Property Office.


특허청
 Korean Intellectual Property Office

2018년 02월 19일
 특허청장
 COMMISSIONER,
 KOREAN INTELLECTUAL PROPERTY OFFICE
성찬모

Media



오리엔스 코리아, 솔더슬리브 국산화...'솔넥터' 시판

국내 중소기업이 솔더슬리브 국산화에 성공, 시판에 나섰다.



<오리엔스 코리아는 솔더슬리브 커넥터인 '솔넥터'를 개발, 시판에 나섰다고 26일 밝혔다.>

오리엔스코리아는 솔더슬리브 커넥터 '솔넥터'를 개발했다고 27일 밝혔다.

솔더슬리브는 프리폼 솔더와 열수축튜브를 결합한 부품이다. 커넥터 일종이다. 서로 다른 두 개의 전선을 연결할 때 내구성, 방수, 방진성을 높이는 역할을 한다. 기존에 손으로 전선을 꼬아 절연테이프로 마감하는 방식보다 안전성을 높일 수 있다.



오리엔스코리아, 연결 전선의 결함으로 인한 화재사고 막는 혁신 부품 개발



오리엔스코리아가 개발한 '솔넥터' 사진=오리엔스코리아

[시사뉴스타임 김수연 기자] 전선과 전선을 연결하려면 그 과정이 복잡했다. 감전 사고나 화재의 원인이 되기도 한다. 인체에 소중한 중소기업 오리엔스코리아(주)(대표 이상필)가 전선을 쉽고 안전하게 연결하는 솔더슬리브를 국산화하는 데 성공, 국내외로 본격적인 보급을 앞두고 있다. 화재사고의 주요 원인 중 하나로 꼽히던 불량 연결 전선에 의한 안전사고를 막는 제품을 개발하여 일상생활뿐만 아니라 각종 산업현장에서도 적용될 것으로 기대하고 있다.

기존 수입 제품의 절반 가격, 품질은 우위에 서

오리엔스코리아가 개발한 '솔넥터(Solnector)'는 솔더 슬리브 커넥터(Solder Sleeve Connector)의 합성으로, 열수축튜브(Heat shrinkable tube)와 프리폼 솔더(Preform Solder)가 결합된 부품이다. 열수축튜브는 핫멜트 접착제가 내부에 도포되어 절연과 방수 성능을 내며, 프리폼 솔더는 강한 인장강도와 우수한 전류효율을 제공한다. 서로 다른 두 개의 전선을 연결할 때 내구성, 방수, 방진성을 높이는 역할을 한다. 특히, 기존에 손으로 전선을 꼬아 절연테이프로 마감하는 방식보다 안전성이 높고, 일체형 구조이기 때문에 누구나 쉽게 수축튜브 작업과 납땜을 한 번에 할 수 있는 것이 장점이다.

산업현장에서는 전선을 연결한 부분이 습기나 물에 닿으면 합선 위험이 있기 때문에 제품 안전성을 높이기 위하여 솔더슬리브를 활용하고 있다. 솔넥터는 열수축튜브 방수 효과와 프리폼 솔더의 통전성을 유지한다. 열풍기로 가열하면 솔더가 녹으면서 납땜 역할을 한다. 열과 함께 수축한 열수축튜브가 이들 전선을 감싸 밀봉 효과를 낸다. 오리엔스코리아는 솔더링 용점을 낮춰 138℃ 열이 가해지면 솔더가 녹도록 개선했다. IP68의 등급으로, 최고와 방진-방수 등급을 갖췄다. 인장력 테스트 결과 100뉴턴(N)의 강한 인장강도를 구현한 것으로 나타났다. 열수축튜브는 폴리올레핀 재질로 구성됐다. 튜브 내 프리폼 솔더는 몰리브덴 코팅됐다. 특히, 무연납 소재로 인체 유해한 카드뮴 등 중금속은 함유하지 않았다. 튜브 내구성을 강화하여 10kg 힘을 가해도 견딜 수 있도록 설계했다. 제품군은 총 4가지이며, 전선 규격에 따라 크기가 달라진다.

Exhibition 1

2018 The World Korean Business Convention



2018 Hochiminh city-Incheon Trade Fair



Safety First !

Exhibition 2

2018 Seoul International Electric Fair



한국전기산업대전 2018

Seoul
International
Electric
Fair



Competition unit price 1

Lead-Free Heat Shrink & Solder Butt Connectors



Heat shrink, LEAD-FREE solder butt connectors are terminals that are used to mate, connect, or terminate a single wire. These terminals provide the ability to solder wire to the terminal, providing a better chance of reliable connectivity. LEAD-FREE Solder butt connectors can be used in automotive, industrial and other applications that use wire to transfer electrical current.

- New LEAD-FREE Solder has greater surface tension for added strength.
- Translucent heat shrink is adhesive-lined and printed with gauge sizes.
- Heat shrink insulated terminals have a greater pull strength than vinyl or nylon.
- [Click here to download a video on proper shrink tube butt connector installation.](#)
- [Click here for heating tools.](#)
- RoHS Compliant.

Enlarge Image



SOLDER SLEEVE

LEAD-FREE

Item	Description	Price			Qty in Package	In Stock	Add to Cart	
		1+	100+	1000+				
966605LF	Lead-Free Heat Shrink & Solder Butt Connector, Clear, 24-22 Ga (10 MIN)	USD 0.67260	USD 0.50950	USD 0.38560	10 EA	✓	10	ADD
966615LF	Lead-Free Heat Shrink & Solder Butt Connector, Red, 22-18 Ga (10 MIN)	USD 0.76730	USD 0.58670	USD 0.44270	10 EA	✓	10	ADD
966625LF	Lead-Free Heat Shrink & Solder Butt Connector, Blue, 16-14 Ga (10 MIN)	USD 0.76730	USD 0.58670	USD 0.44270	10 EA	✓	10	ADD
966635LF	Lead-Free Heat Shrink & Solder Butt Connector, Yellow, 12-10 Ga (10 MIN)	USD 0.89070	USD 0.67910	USD 0.51410	10 EA	✓	10	ADD
966645LF	Lead-Free Heat Shrink & Solder Butt Connector, Red, 8 Ga (10 MIN)	USD 1.77	USD 1.32	USD 1.10	10 EA	✓	10	ADD

0.3856

0.4427

0.4427

0.5141

Competition unit price 2



[Northeast Fasteners](#)
NEF Heat Shrink Solder Electrical Butt Connectors, Red 22-18 gauge, 25 Pack
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Price: **\$27.99** + \$6.59 shipping

In Stock.
Get it as soon as **April 4 - 7** when you choose **Standard Shipping** at checkout.
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- 22-18 gauge red heat shrink solder electrical butt connectors - 25 pieces
- Translucent, adhesive-lined polyolefin tubing allows visual inspection, prevents wire corrosion, and provides a waterproof seal.
- Easy installation with pre-measured solder takes the guesswork out of the soldering process.
- A soldered electrical connection provides superior current flow and tensile strength.
- Color-coded tubing with wire gauge imprint provides easy identification of the correct part for the job

› [See more product details](#)

Competition unit price 3



Northeast Fasteners

NEF Electrical Butt Connectors, Blue Heat Shrink Solder, 16-14 Gauge, 25 Pack

★★★★☆ 1 customer review

Price: \$28.99 + \$6.59 shipping

In Stock.

Get it as soon as April 4 - 7 when you choose **Standard Shipping** at checkout.

Ships from and sold by [Northeast Fasteners Co., Inc.](#)

- 16-14 AWG Blue Heat Shrink Solder Electrical Butt Connectors - 25 piece set
- Translucent, adhesive-lined polyolefin tubing allows visual inspection, prevents wire corrosion, and provides a waterproof seal.
- Easy installation with pre-measured solder takes the guesswork out of the soldering process.
- A soldered electrical connection provides superior current flow and tensile strength.
- Color-coded tubing with wire gauge imprint provides easy identification of the correct part for the job

› [See more product details](#)

