DAE EUN ELECTRONICS CO., LTD.

COMPANY PROFILE

2020

UL & CSA File No. E134225

ISO 9001

ISO 14000

CE

ETL

Contents

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1-1. Company overview

DAE EUN ELECTRONICS CO., LTD
1029 HOKYE-DONG, DONGAN-GU, ANYANG-SHI, GYEONGKI-DO, 14119 KOREA
TEL : 031-456-3571~3 / FAX : 031-452-2851
URL : http://www.dek.co.kr

Personnel	Office worker	23
	Production line	28
	Total	50
R&D Personnel	Mechanic Dept.	2
	System development Dept.	2
	Total	4

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1-2. Company history

- 1985.01 Established Dae Eun Electronics Co., Ltd
- 1989.05 Obtained UL certification
- 1992.03 Made an OEM agreement with USA Sprint Ltd
- 1996.12 Received Grand Prize Award of small and medium enterprise from Kyonggi Province Governor
- 1998.03 Developed Category 5 grade of structured cabling Products for the first time in Korea
- 2000.05 Developed Enhanced Category 5 grade of structured cabling Products firstly in Korea
- 2001.12 Obtained ISO 9001 certification from SGS Yarsley
- 2003.01 Established an overseas factory in China (Suzhou city, Jiangsu province)
- 2003.11 Received award ‘Parts specialization enterprise’ from Prime Minister
- 2005.02 Developed Fiber Outlet Series
- 2005.07 Developed Category 6 grade of structured cabling products
- 2005.12 Obtained ISO 9001, ISO 14001 certificate (KIC)
- 2006.03 Obtained ISO 9001, ISO 14001 certificate –China factory (SGS)
- 2007.11 Developed Cat’ 5E/Cat’6 Shield Keystone Jack
- 2008.05 Developed Wireless AP
- 2010.02 Developed Cat.6 110 Block
- 2014.12 Developed Intelligent cabling system
- 2018.04 Developed LED Keystone Jack
- 2019.01 Developed Cat.6A Keystone Jack

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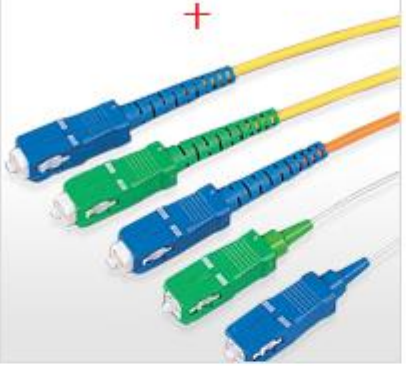
2-1. Main products

UTP/FTP stuctured caling solution +

Opitcal fiber structured cabling solution +



Home switching hub +

Wireless AP +

Modular plug +

Modular jack +

Telephone network system accessories +

Smart cabling managment system (CMS) +

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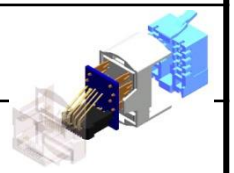
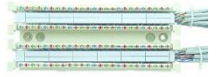
2-2. Intellectual property rights

Description	Classification	Registered country	
Apparatus for inhibiting cross talk under a difference mode	Patent	USA/KOREA	
Electric connector	Patent	USA/KOREA/CHINA	
Modular Jack with connection cap	Patent	KOREA	
Modular plug(Category 6)	Patent	KOREA	
Insert for modular jack	Patent	KOREA	
The patent of a Category6 circuit of structural analysis method	Patent	KOREA/USA/CHINA	
Terminal block of connection terminal	Patent	KOREA/CHINA	
Terminal block 100P	Patent	KOREA	

	Registered	Remarks
Patent	**27**	**Overseas registered : 8**
Utility model	**27**	
Design	**37**	
Total	**91**	

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3. Quality assurance system

3-1. ISO9001 & ISO14001

QEC CERTIFICATION

CERTIFICATION
Quality Management System

Certificate of Approval

This is to certify that the QMS of
대은전자㈜
경기도 안양시 동안구 엘에스로 91 번길 45 (호계동)
위 회사의 품질경영 체제가 아래의 인증규격과
인증범위의 요구사항에 적합함을 인증합니다.

ISO 9001:2008

UTP 케이블용 접속하드웨어, 모듈잭, 플러그, 코드,
접속박스, 소비 및 산업용 전기/전자장비의
설계, 개발, 생산

Authorised by: RN Cooke
Chief Executive

발 행 일: 14 February 2015
유 효 기 간: 13 February 2018

Recertification audit before 13 January 2018. Certified since 14 February 2012
This certificate is the property of QEC Certification and remains
valid Subject to satisfactory annual Surveillance audits.

인증서 번호: QEC 89903537/3/Q

SN Registrars (Holdings) Limited
Registration House,
22b Church Street,
Rushden, Northamptonshire,
NN10 9YT, UK
Tel: +44 (0) 1933 383261
Email: info@qec.co.uk
Web: www.qec.co.uk
Company number: 07659067

IAF

ISO9001:2008

UKAS MANAGEMENT SYSTEMS

Member of SN Registrars (Holdings) Ltd

QSCert, spol.s r.o.
Management Systems Certification Body

by this

CERTIFICATE

대은전자㈜

경기도 안양시 동안구 호계동 1029 번지

ISO 14001:2004

통신 기자재 부품의 설계, 개발, 생산 및 부가서비스

인증서번호 : c E-1296/08 c
유 효 일 자 : June 2011
발 급 일 자 : 23. 06. 2008

IAF

Ing. Marcel Sloch
chief executive

3-2. Product certifications – KC / UL

1) KC : Korean certification for electric and communication test and electric safety test (post management : none)

2) UL : Certification for mechanical safety (Post management : 2 times/year) ▶ DEK : E134225

3) RoHS : Using guideline of 6 hazard materials
(Lead, Cadmium, Mercury, Chromium, PBEs, PBDEs)

Certification	Foundation	Certification area	Related certification	Certification character
UL	1893	USA, International	UL / ANSI	Safety test
KC	1982	Korea	Korean electric communication basic law	Electric communication test, Electric safety test
RoHS	2003	EU, International	WEEE	Restriction of hazard substances (Electric product and components)

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3-2. Product certifications – UL

CERTIFICATE OF COMPLIANCE

Certificate Number 20130829-E134225
Report Reference E134225-19901212
Issue Date 2013-AUGUST-29

Issued to: DAE EUN ELECTRONICS CO LTD
1029 HOKYE-DONG
ANYANG-SHI KYONGGI-DO 430-081 KOREA

This is to certify that representative samples of: COMPONENT - COMMUNICATIONS CIRCUIT ACCESSORIES
Please see addendum

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 1863, the Standard for Communication Circuit Accessories. CAN/CSA C22.2 No. 182.4-M90, the Canadian Standard for Plugs, Receptacles and Connectors for Communication Systems

Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Recognized Component Marks for the U.S. and Canada should be considered as being covered by UL's Recognition and Follow-Up Service and meeting the appropriate U.S. and Canadian requirements.

The UL Recognized Component Mark for the U.S. generally consists of the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory. As a supplementary means of identifying products that have been produced under UL's Component Recognition Program, UL's Recognized Component Mark, , may be used in conjunction with the required Recognized Marks. The Recognized Component Mark is required when specified in the UL Directory preceding the recognitions or under "Markings" for the individual recognitions. The UL Recognized Component Mark for Canada consists of the UL Recognized Mark for Canada, , and the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory.

Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. The final acceptance of the component is dependent upon its installation and use in complete equipment submitted to UL LLC.

Look for the UL Recognized Component Mark on the product.

William R. Carey, Director, North American Certification Programs
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at www.ul.com/database

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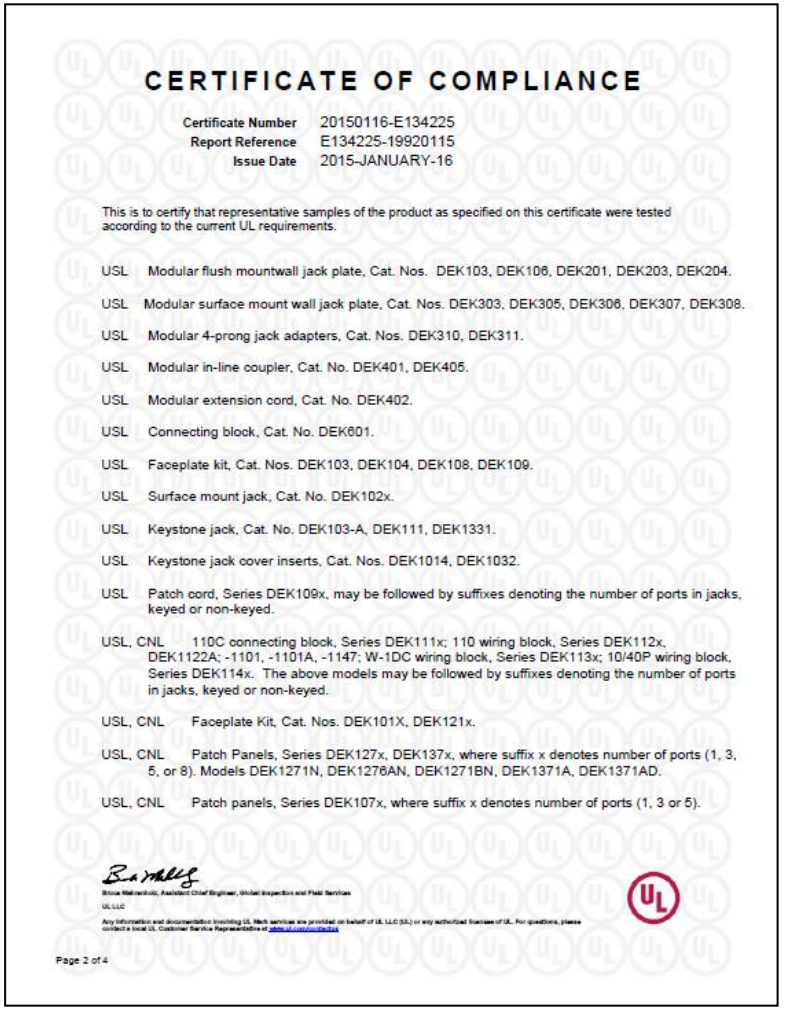

CERTIFICATE OF COMPLIANCE

Certificate Number 20150116-E134225
Report Reference E134225-19920115
Issue Date 2015-JANUARY-16

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

USL Modular flush mountwall jack plate, Cat. Nos. DEK103, DEK106, DEK201, DEK203, DEK204.

USL Modular surface mount wall jack plate, Cat. Nos. DEK303, DEK305, DEK306, DEK307, DEK308.

USL Modular 4-prong jack adapters, Cat. Nos. DEK310, DEK311.

USL Modular in-line coupler, Cat. No. DEK401, DEK405.

USL Modular extension cord, Cat. No. DEK402.

USL Connecting block, Cat. No. DEK601.

USL Faceplate kit, Cat. Nos. DEK103, DEK104, DEK108, DEK109.

USL Surface mount jack, Cat. No. DEK102x.

USL Keystone jack, Cat. No. DEK103-A, DEK111, DEK1331.

USL Keystone jack cover inserts, Cat. Nos. DEK1014, DEK1032.

USL Patch cord, Series DEK109x, may be followed by suffixes denoting the number of ports in jacks, keyed or non-keyed.

USL, CNL 110C connecting block, Series DEK111x; 110 wiring block, Series DEK112x, DEK1122A; -1101, -1101A, -1147; W-1DC wiring block, Series DEK113x; 10/40P wiring block, Series DEK114x. The above models may be followed by suffixes denoting the number of ports in jacks, keyed or non-keyed.

USL, CNL Faceplate Kit, Cat. Nos. DEK101X, DEK121x.

USL, CNL Patch Panels, Series DEK127x, DEK137x, where suffix x denotes number of ports (1, 3, 5, or 8). Models DEK1271N, DEK1276AN, DEK1271BN, DEK1371A, DEK1371AD.

USL, CNL Patch panels, Series DEK107x, where suffix x denotes number of ports (1, 3 or 5).

Brian Mathenitch, Assistant Chief Engineer, Global Inspection and Field Services
UL LLC

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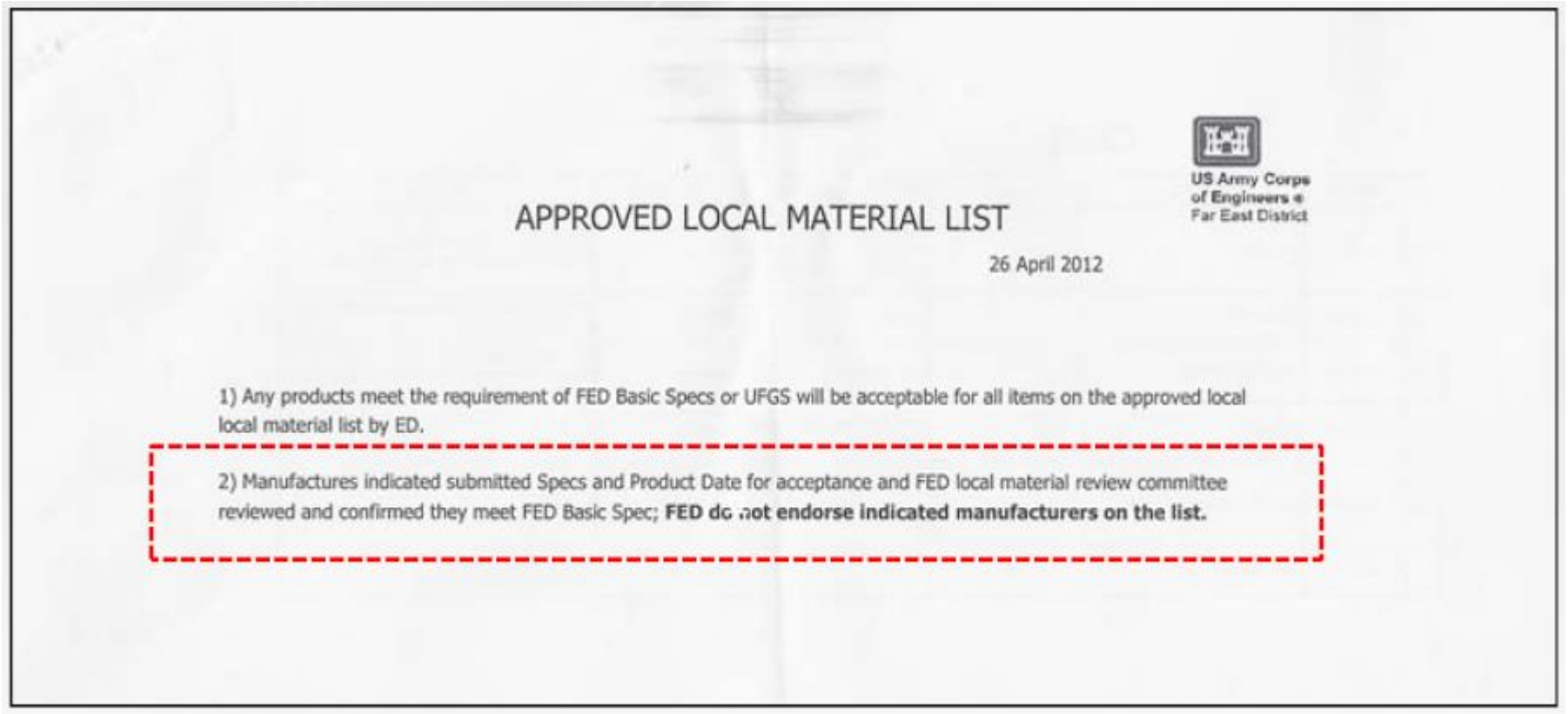
3-3. US Army approval (FED)



US Army Corps
of Engineers ®
Far East District

APPROVED LOCAL MATERIAL LIST

26 April 2012

1) Any products meet the requirement of FED Basic Specs or UFGS will be acceptable for all items on the approved local local material list by ED.

2) Manufactures indicated submitted Specs and Product Date for acceptance and FED local material review committee reviewed and confirmed they meet FED Basic Spec; **FED do not endorse indicated manufacturers on the list.**

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3-3. US Army approval (FED)

NO	SECTION	ITEM	REFERENCE		EVALUATION	REMARKS
			LOCAL	US		
16	27 10 00	Wall Type Single Modular Tel Outlet		UL 1863 TIA/EIA-568-B.1/B.2	Acceptable	Manufacturer : Dae Eun Elec Co. DEK 1333 Series Acceptable
17	27 10 00	1-TEL & 1-LAN Wall Outlet		UL 1863 TIA/EIA-568-B.1/B.2	Acceptable	Manufacturer : Dae Eun Elec Co. DEK 134x & 135x Series Acceptable
18	27 10 00	2-TEL & 2-LAN Wall Outlet		UL 1863 TIA/EIA-568-B.1/B.2	Acceptable	Manufacturer : Dae Eun Elec Co. DEK 134x & 135x Series Acceptable
19	27 10 00	2-LAN Outlet wall Mounted		UL 1863 TIA/EIA-568-B.1/B.2	Acceptable	Manufacturer : Dae Eun Elec Co. DEK 134x & 135x Series Acceptable
20	27 10 00	2-LAN Outlet Ceiling Mounted		UL 1863 TIA/EIA-568-B.1/B.2	Acceptable	Manufacturer : Dae Eun Elec Co. DEK 134x & 135x Series Acceptable
21	27 10 00	RMC (Rigid Metallic Conduit)	KS C 8401, KS C 8422, KS C 8458, KS C 8461	ASTM D 709, CEA 310 E, IEEE STD 100	Acceptable	Products from the following manufacturer(s) were reviewed and deemed acceptable: Manufacturer : Hyundai Hysco, SeAH, Husteel, & KumKang
22	26 20 00	Busway		NEMA BU1.1, UL87	Acceptable	UL listed
23	33 70 02	Pvc Duct(Pipe)		NEMA TC 6	Acceptable	NEMA Standard
24	27 10 00	ISP Optical Fiber Cable		ICEA S-83-596, UL 1666 TIA/EIA-568-B.3	Acceptable	UL listed & ICEA/TIA
25	27 10 00	Telrcummunications Spaces - Equipment Support Frame - Connector Block - Cable Guides - 110 Block Patch Panel - UTP Patch Cord - FO Patch Cord - FO Patch Panel - FO Distribution Panel		CEA-310-E, UL 50 TIA/EIA-568-B.1/B.2 TIA/EIA-604-3A TIA-455-21-A CEA-310-E	Conditionally Acceptable	Product must be UL listed or third party independent testing laboratory certified

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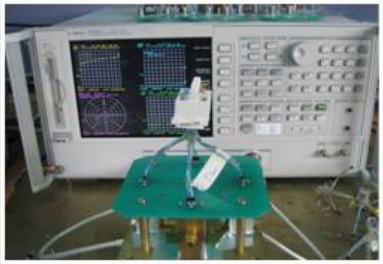
3-4. Quality inspection equipment


Network analyzer (8753ES)


Network analyzer (4195A)

3D measuring instrument


Temperature & Humidity chamber


Vibrator


smartbit


Plating thickness measruing instrument


Salt spray tester

Fiber loss tester


Functure tester


Microscope


Microscope


Repeated plug insertion tester


DTX-1800


Over load voltage tester

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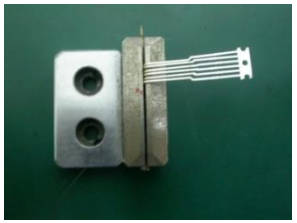
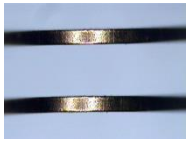
3-5. Reliability test item

Test name	Equipment	Test condition	Test picture	Judgement standard
Plating thickness measurement (Gold, Nickel)		Temp. 20°C Humidity 65%RH Pressure 1010hpa		Au : ≥ 50μ-in Ni : ≥100 μ-in
Pin bending test	 **Bending Jig**	90° bending after fixing it on jig	  Before After	No peeling, crack after 90° bending
Salt spray test		NaCl 5%, 48hrs	  Before After	No corrosion

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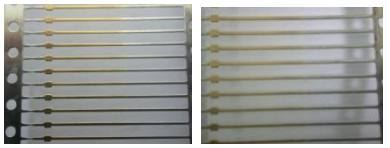
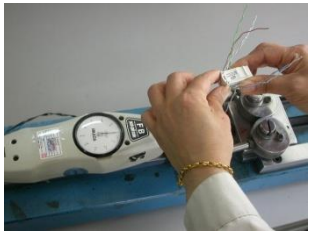
3-5. Reliability test item

Test name	Equipment	Test condition	Test picture	Judgement standard
Nitric acid test	 **Desiccator**	HNO_3 50~100mℓ 23±2°C, 30± 5min.	 Before After	No corrosion
IDC Terminal horizontal pulling force test	 **Push pull gage**	Horizontally 3.62Kg.f↑		≥ 3.62Kg.f
IDC Terminal Vertical pulling force test	 **Push pull gage**	Vertically 0.68Kg.f↑		≥ 0.68Kg.f

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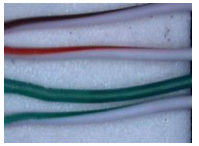
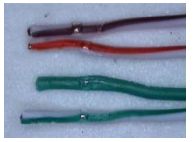
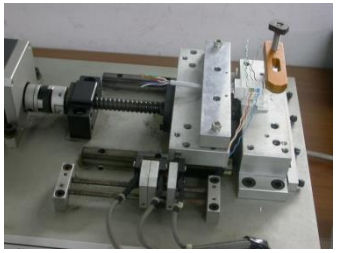
3-5. Reliability test item

Test name	Equipment	Test condition	Test picture	Judgement standard
IDC insertion life	 **m Ω meter**	More than 200 times	  Before After	Contact resistance change : Less than 5mΩ
Jack insertion life	 **m Ω meter**	More than 750 times		Contact resistance change : Less than 5mΩ
Temperature and humidity test	 **Chamber**	Temp.: -25°C/65°C each 24Hr Humidity: 93% 21cycle		Contact resistance change : Less than 5mΩ

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3-5. Reliability test item

Test name	Equipment	Test condition	Test picture	Judgement standard
Vibration test	 Vibrator	Frequency 10-55Hz, Amplitude 0.75mm, S/C10sec.,XYZ at each 2Hr		Contact resistance change : Less than 5mΩ
Component performance test (Cat.5E / Cat.6)	 Network Analyzer	TIA/EIA 568-B, TIA/EIA 568-B.2-1 Category 5E / 6 standards		TIA/EIA 568-B, TIA/EIA 568-B.2-1 Should meet Category 5E / 6 standards

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Thank you

DAE EUN ELECTRONICS CO., LTD.