



EUNHYE KANG
EYE CAP KOREA CO LTD
23-7 Junghajeo-gil Paltan-myeon
Hwaseong-si Gyeonggi-do 445-958 KOREA

Date: 2015/12/22
Subscriber: 100604921
PartySite: 655659
File No: E478201
Project No: 4787032544
PD No: 15M55005
Type: R
PO Number: LIM, JANGHO

Subject: **Initial Production Inspection**

PLEASE NOTE: YOUR MANUFACTURING REPRESENTATIVE IS NOT AUTHORIZED TO SHIP ANY PRODUCTS BEARING ANY UL MARKS UNTIL THE INITIAL PRODUCTION INSPECTION HAS BEEN SUCCESSFULLY CONDUCTED BY THE UL FIELD REPRESENTATIVE.

An Initial Production Inspection (IPI) is an inspection that must be conducted prior to the first shipment of products bearing the UL Mark. This is to ensure that products being manufactured are in accordance with UL's requirements including the Follow-Up Service Procedure. After the UL Representative has verified compliance of your product(s), authorization will be granted for shipment of product(s) bearing the appropriate UL Marks as denoted in the Procedure.

Please file revised pages and illustrations in place of material of like identity. New material should be filed in its proper numerical order.

NOTE: Follow-Up Service Procedure revisions DO NOT include Cover Pages, Test Records and Conclusion Pages. Report revisions DO NOT include Authorization Pages, Indices, Section General Pages and Appendixes.

Please review this material and report any inaccuracies to UL's Customer Service Professionals. Contact information for all of UL's global offices can be found at <http://ul.com/aboutul/locations>.

If you'd like to receive updated materials FASTER, UL offers electronic access and/or delivery of this material. For more details, contact UL's Customer Service Professionals as shown above., referring to the above Project and/or PD Numbers.

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TPI File

ADDENDUM TO TRANSMITTAL LETTER

EUNHYE KANG
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The following material resulting from the investigation under the above numbers is enclosed.

Issue

<u>Date</u>	<u>Vol</u>	<u>Sec</u>	<u>Pages</u>	<u>Revised Date</u>
2015/12/22	1	1	Cert of Compliance	
2015/12/22	1	1	Add New Volume	

Follow-Up Service Procedure

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PAGES (in content order)	FUNCTION	HOW TO UPDATE
Authorization Page	Displays the Product Category, the type of Follow-Up Service (Type R=Reexamination / Type L=Label), the File Number and the Volume Number associated with each Applicant's, Manufacturer's and Listee's company name and address.	Replace existing page by matching the UL File Number and Volume Number. Discard the older page (refer to "Issued" or "Revised" date).
Addendum to Authorization Page*	Lists the additional names and addresses of manufacturing locations, when multiple locations exist	Replace existing page by matching the UL File Number and Volume Number. Discard the older page (refer to "Issued" or "Revised" date).
Listing Mark Data (LMD), Classification Mark Data (CMD) or Recognized Component Mark Data (RCMD) Pages* #	Used only for products covered under Type R Service. Displays the correct LMD, CMD, or RCMD Mark, the Control Number for Listed and Classified categories and additional information regarding minimum size, application, procurement, and any other optional markings, in addition to the UL Mark.	Replace existing page by matching the UL File Number and Volume Number. Discard the older page (refer to "Issued" or "Revised" date).
Multiple Listing (ML) Correlation Sheet*	Correlates product model numbers between those products made by a Manufacturer for the Basic Applicant and those supplied to another company, the Multiple Listee.	Replace, add or delete page(s) with most current "Issued" or "Revised" date.
Index*	Catalogs the contents of the Procedure by some logical means, i.e. Section Number, Report Reference Number, or Issue Date.	Replace present page by matching the UL File Number, Volume Number, Page Number and most current "Revised" date.
Appendices* # (App.)	Contains instructions for the Manufacturer and UL Representative concerning specific responsibilities and required periodic tests. May also outline tests to be conducted on samples to be forwarded to UL's facilities.	Replace present page by matching the UL File Number, Volume Number, Appendix letter (eg. App. A), Page Number and most current "Revised" date.
	Standardized Appendix Pages are the same for all manufacturers within a particular product category.	Replace present page by matching the Appendix letter (eg. App. A), Page Number and most current "Revised" date.
Follow-Up Inspection Instructions (FUII) Pages*	Contains information similar to that in the Appendices. FUII Pages are issued as part of the Procedure when a UL Standard is used in conjunction with the Procedure, and are the same for all manufacturers within a particular category.	Replace present pages by matching the Page Number and most current "Issued" or "Revised" date.
Section General* # (Sec. Gen.)	Contains description, requirements, identifications and/or specifications that are common to all products covered by the entire volume and supplements the information provided in the Description Section.	Replace present page by matching the UL File Number, Volume Number, Page Number and most current "Revised" date.
Description, or Section (Sec.)*	Contains the specific description of one or more products or systems. This includes written text supplemented by photographs, drawings, etc., as necessary, to define features that affect compliance with the applicable requirements.	Replace present page by matching the UL File Number, Volume Number, Section Number, Page Number and most current "Issued" date.

* The above page(s) may not appear in all UL Follow-Up Service Procedures; UL's Conformity Assessment Services staff determines their inclusion.

These pages are combined in the **Generic Inspection Instructions** for International Style Reports, identified, as example by Vol. X1, X2, etc.

PLEASE NOTIFY YOUR LOCAL UL OFFICE OF ANY CHANGES IN CONTACT NAME, COMPANY NAME OR ADDRESS, SO THIS MATERIAL AND IMPORTANT INFORMATION CONTINUES TO BE DELIVERED TO YOUR FACILITY WITHOUT INTERRUPTION.



File E478201

Vol 1

Auth. Page 1

Issued: 2015-12-22

Revised: 2015-12-22

FOLLOW-UP SERVICE PROCEDURE
(TYPE R)

WIRE CONNECTORS AND SOLDERING LUGS
(ZMVV, ZMVV7)

Manufacturer: SEE ADDENDUM FOR MANUFACTURER LOCATIONS

Applicant: 655659 (Party Site)
EYE CAP KOREA CO LTD
(100604-921) 23-7 Junghajeo-gil Paltan-myeon
Hwaseong-si Gyeonggi-do 445-958 KOREA

Listee/Classified Co.: 655659 (Party Site)
SAME AS APPLICANT
(100604-921)

This Follow-Up Service Procedure authorizes the above Manufacturer(s) to use the marking specified by UL LLC, or any authorized licensee of UL LLC, including the UL Contracting Party, only on products when constructed, tested and found to be in compliance with the requirements of this Follow-Up Service Procedure and in accordance with the terms of the applicable service agreement with UL Contracting Party and any applicable Service Terms. The UL Contracting Party for Follow-Up Services is listed on addendum to this Follow-Up Service Procedure ("UL Contracting Party"). UL Contracting Party and UL LLC are referred to jointly herein as "UL."

UL further defines responsibilities, duties and requirements for both Manufacturers and UL representatives in the document titled, "UL Mark Surveillance Requirements" that can be located at the following web-site: <http://www.ul.com/fus> and in the document titled "UL and Subscriber Responsibilities" that can be located at the following website: <http://www.ul.com/responsibilities>. Manufacturers without Internet access may obtain the current version of these documents from their local UL customer service representative or UL field representative. For assistance, or to obtain a paper copy of these documents or the applicable Service Terms, please contact UL's Customer Service at <http://ul.com/aboutul/locations/>, select a location and enter your request, or call the number listed for that location.

The Applicant, the specified Manufacturer(s) and any Listee/Classified Co. in this Follow-Up Service Procedure must agree to receive Follow-Up Services from UL Contracting Party. If your applicable agreement is a Global Services Agreement ("GSA") with an effective date of January 1, 2012 or later and this Follow-Up Service Procedure is issued on or after that effective date, the Applicant, the specified Manufacturer(s) and any Listee/Classified Co. will be bound to a Service Agreement for Follow-Up Services upon the earliest by any Subscriber of use of the prescribed UL Mark, acceptance of the factory inspection, or payment of the Follow-Up Service fees which will incorporate such GSA, this Follow-Up Service Procedure and the Follow-Up Service Terms which can be accessed by clicking here: <http://www.ul.com/contracts/Terms-After-12-31-2011>. In all other events, Follow-Up Services will be governed by and incorporate the terms of your applicable service agreement and this Follow-Up Service Procedure.

It is the responsibility of the Listee/Classified Co. to make sure that only the products meeting the aforementioned requirements bear the authorized Marks of UL LLC, or any authorized licensee of UL LLC.

This Follow-Up Service Procedure contains information for the use of the above Manufacturer(s) and representatives of UL and is not to be used for any other purpose. It is provided to the Manufacturer with the understanding that it will be returned upon request and is not to be copied in whole or in part.

This Follow-Up Service Procedure, and any subsequent revisions, is the property of UL and is not transferable. This Follow-Up Service Procedure contains confidential information for use only by the above named Manufacturer(s) and representatives of UL and is not to be used for any other purpose. It is provided to the Subscribers with the understanding that it is not to be copied, either wholly or in part unless specifically allowed, and that it will be returned to UL, upon request.

Capitalized terms used but not defined herein have the meanings set forth in the GSA and the applicable Service Terms or any other applicable UL service agreement.

UL shall not incur any obligation or liability for any loss, expense or damages, including incidental, consequential or punitive damages arising out of or in connection with the use or reliance upon this Follow-Up Service Procedure to anyone other than the above Manufacturer(s) as provided in the agreement between UL LLC or an authorized licensee of UL LLC, including UL Contracting Party, and the Manufacturer(s).

UL LLC has signed below solely in its capacity as the accredited entity to indicate that this Follow-Up Service Procedure is in compliance with the accreditation requirements.

Bruce A. Mahrenholz
Director
North American Certification Program

LOCATION

1426176 (Party Site)
MI RAE ELECTRIC CO
2-7 Dangha-ri Bongdan-eup
Hwaseong-si Gyeonggi-do KOREA

Factory ID: None
UL Contracting Party for above site is: UL AG

(FILE IMMEDIATELY AFTER AUTHORIZATION PAGE)

LISTING MARK

The Listing Mark consists of four elements placed in close proximity and shall appear on Listed products only. Minimum size is not specified, as long as the Listing Mark is legible. The following is suggested.



XXXX = The control number assigned by UL, E478201.

The minimum height of the registered trademark symbol ® shall be 3/64 of an inch. When the overall diameter of the UL Mark is less than 3/8 of an inch, the trademark symbol may be omitted if it is not legible to the naked eye.

The product identity is: "WIRE CONNECTOR," "SOLDERING LUG," "TERMINAL CONNECTOR," "SPlicing WIRE CONNECTOR," or other appropriate product identities as shown in the individual Listing.

The product identity may be omitted if the Mark is directly and permanently applied to the product by stamping, molding, ink-stamping, silk screening or similar process. The product identity may appear elsewhere on the product if the other three elements are part of the nameplate that includes the rating or the catalog or model designation.

A separable Listing Mark (not part of a nameplate and in the form of decals, stickers or labels) shall always include the four elements.

The complete four-element Listing Mark shall appear on the smallest unit container in which the product is packaged, with or without the UL symbol stamped, cast or molded into the product.

PROCUREMENT

The manufacturer may reproduce the Mark or obtain it from a UL authorized supplier. The list of UL authorized label suppliers can be found on UL's online directory at www.ul.com.

(FILE IMMEDIATELY AFTER AUTHORIZATION PAGE)

LISTING MARK

The Listing Mark consists of four elements placed in close proximity and shall appear on Listed products only. Minimum size is not specified, as long as the Listing Mark is legible. The following is suggested.

UL Symbol to the left and the C-UL Symbol to the right. (If only Canadian coverage is authorized, use only the C-UL Symbol.)



Alternatively, the Canadian/US Mark may be used. The UL Symbol with "C" to the left and "US" to the right.



XXXX = The control number assigned by UL, E478201.

The minimum height of the registered trademark symbol ® shall be 3/64 of an inch. When the overall diameter of the UL Mark is less than 3/8 of an inch, the trademark symbol may be omitted if it is not legible to the naked eye.

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INDEX

Catalog Number	Section	Requirements Evaluated to (US and/or CN)
25-1H, 35-1H, 50-1H, 70-1H, 95-1H, 120-1H, 150-1H, 185-1H, 240-1H, 300-1H, 400-1H, 25-2H, 35-2H, 50-2H, 70-2H, 95-2H, 120-2H, 150-2H, 185-2H, 240-2H, 300-2H, 400-2H	1	USL and CNL

USL - United States Standard, Listed

CNL - Canadian National Standard, Listed

CERTIFICATE OF COMPLIANCE

Certificate Number 20151222-E478201
Report Reference E478201-20151222
Issue Date 2015-DECEMBER-22

Issued to: EYE CAP KOREA CO LTD
23-7 Junghajeo-gil Paltan-myeon
Hwaseong-si Gyeonggi-do 445-958 KOREA

**This is to certify that
representative samples of**

WIRE CONNECTORS AND SOLDERING LUGS
Listed terminal connectors,

Cat. Nos. 25-1H, 35-1H, 50-1H, 70-1H, 95-1H, 120-1H,
150-1H, 185-1H, 240-1H, 300-1H, 400-1H, 25-2H, 35-2H,
50-2H, 70-2H, 95-2H, 120-2H, 150-2H, 185-2H, 240-2H,
300-2H, 400-2H.

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

Standard(s) for Safety: UL 486A-486B and CSA C22.2 No. 65-13, Wire
Connectors.

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

Only those products bearing the UL Certification Mark should be considered as being covered by UL's
Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program
UL LLC

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contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



File 478201
Project 4787032544

December 22, 2015

REPORT

on

WIRE CONNECTORS AND SOLDERING LUGS

EYE CAP KOREA CO LTD
Gyeonggi-do, Korea

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DESCRIPTION

PRODUCT COVERED:

USL, CNL - Listed terminal connectors,

Cat. Nos. 25-1H, 35-1H, 50-1H, 70-1H, 95-1H, 120-1H, 150-1H, 185-1H, 240-1H, 300-1H, 400-1H, 25-2H, 35-2H, 50-2H, 70-2H, 95-2H, 120-2H, 150-2H, 185-2H, 240-2H, 300-2H, 400-2H.

GENERAL CHARACTER AND USE:

The devices described in this Report are of the following type.

Type of Wiring Termination -

Crimp type wire connector

WIRE RANGE:

Cat. No.	Wire Size, AWG/kcmil	ILL. No.
	Copper	Body
25-1H	4 AWG	1
35-1H	2 AWG	1
50-1H	1 AWG	1
70-1H	2/0 AWG	1
95-1H	3/0 AWG	1
120-1H	250 kcmil	1
150-1H	300 kcmil	1
185-1H	350 kcmil	1
240-1H	500 kcmil	1
300-1H	600 kcmil	1
400-1H	750 kcmil	1
25-2H	4 AWG	2
35-2H	2 AWG	2
50-2H	1 AWG	2
70-2H	2/0 AWG	2
95-2H	3/0 AWG	2
120-2H	250 kcmil	2
150-2H	300 kcmil	2
185-2H	350 kcmil	2
240-2H	500 kcmil	2
300-2H	600 kcmil	2
400-2H	750 kcmil	2

TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE USE):

Products designated USL have been investigated using requirements contained in the Standard UL 486A-486B.

Products designated CNL have been investigated using requirements contained in CSA C22.2 No. 65 - 13.

RATINGS:

Tooling -

Cat. No.	Wire Size, AWG/kcmil	Crimp tool identification		Number of crimps	Wire Strip Length, mm
		Manufacturer name (Model Number)	Die Index		
25-1H	4 AWG	Klauke (EK 120/42-L)	25	1	9.3
35-1H	2 AWG		35	1	12.5
50-1H	1 AWG		50	1	14.6
70-1H	2/0 AWG		70	1	17.9
95-1H	3/0 AWG		95	1	18.8
120-1H	250 kcmil		120	1	22
150-1H	300 kcmil		150	1	26.4
185-1H	350 kcmil		185	1	29
240-1H	500 kcmil		240	2	32.7
300-1H	600 kcmil		300	2	36.4
400-1H	750 kcmil		400	3	47.9
25-2H	4 AWG		25	1	22
35-2H	2 AWG		35	1	25
50-2H	1 AWG		50	1	24.9
70-2H	2/0 AWG		70	1	30.2
95-2H	3/0 AWG		95	2	32.3
120-2H	250 kcmil		120	2	38.7
150-2H	300 kcmil		150	2	40.4
185-2H	350 kcmil		185	3	45.7
240-2H	500 kcmil		240	3	51.4
300-2H	600 kcmil		300	3	61.4
400-2H	750 kcmil		400	3	66.5

Location of crimps - Evenly spaced along crimp barrel.

MARKING:

Connector marked with:

- a) Listee's name, trade name or trademark
- b) Catalog number
- c) Wire size

In lieu of the markings in b) or c), or both, a connector shall be marked with a single identifying symbol. This symbol may be an individual catalog number, a type designation, a size designation, such as 12, or an equivalently significant symbol. Each unit container containing connectors so identified or an information sheet packed in the unit container shall be marked with the information specified in marking items a), b), and c). A type designation is intended primarily to identify a particular design, which may include various features covered by different catalog numbers.

Connector, unit container or information sheet marked with:

- 1. CU
- 2. Wire size
- 3. Crimp tool identification, see Ratings
- 4. Location and number of crimps, see Ratings
- 5. Wire strip length, see Ratings

Crimping Tool - Klauke, Model EK 120/42-L, detail configuration see Fig.1, Die Applicators see ILL. 3.

CONSTRUCTION DETAILS:

TERMINAL CONNECTORS, CAT. NO. 25-1H, 35-1H, 50-1H, 70-1H, 95-1H, 120-1H, 150-1H, 185-1H, 240-1H, 300-1H, 400-1H, 25-2H, 35-2H, 50-2H, 70-2H, 95-2H, 120-2H, 150-2H, 185-2H, 240-2H, 300-2H, 400-2H

General - The photograph depicts the general shape and design of all catalog numbers covered by this Report.

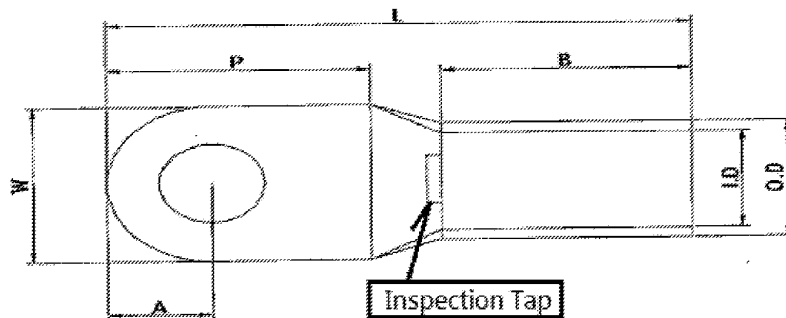
Cat. No.	ILL. No., Body
25-1H, 35-1H, 50-1H, 70-1H, 95-1H, 120-1H, 150-1H, 185-1H, 240-1H, 300-1H, 400-1H	1
25-2H, 35-2H, 50-2H, 70-2H, 95-2H, 120-2H, 150-2H, 185-2H, 240-2H, 300-2H, 400-2H	2

1. Connector Body - Plated copper. See above tabulation of illustrations for dimensional details.
2. Inspection Tap - R/C plastic (QMFZ2), Eye Cap Korea Co Ltd, (E477882), Grade TAP-RBYGB, secured inside mounting end of crimping barrel.



C151774242

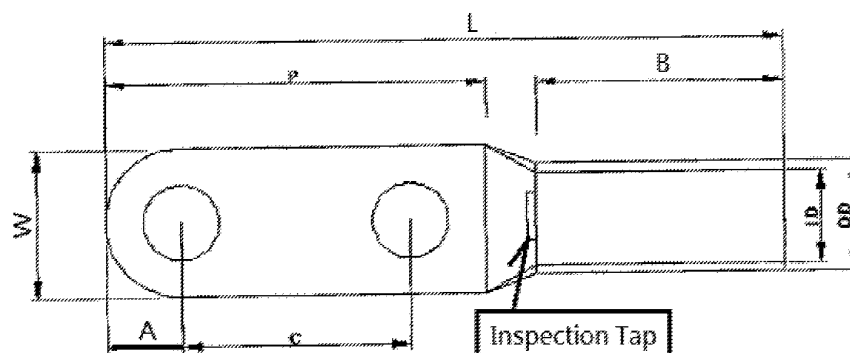
And Report



Unit: mm

Model No.	Dimension (mm)								Conductor Strip length	Number of Crimps
	I.D	O.D	L	B	W	P	A	Hole		
25-1H	6.7	9	37	15	13.0	18	8	8.4	9.3	1
35-1H	8.1	10.6	43	17	15.0	21	10	10.4	12.5	1
50-1H	9.5	12	48	20	17.0	22	10	10.4	14.6	1
70-1H	11.3	14.6	55	23	21.0	25	13	10.4	17.9	1
95-1H	13.5	17	61	25	24.5	28	13	13	18.8	1
120-1H	15.2	19	64	28	28.5	28	14	13	22	1
150-1H	17	21	75	32	30.5	33	15	13	26.4	1
185-1H	19	23.5	80	34	34.0	34	15	13	29	1
240-1H	22	28	87	38	40.0	36	16	13	32.7	2
300-1H	24	30.5	100	43	44.0	43	19	13	36.4	2
400-1H	26	34	109	50	48.0	45	19	13	47.9	3
	±0.1	±0.1	±0.5	±0.5	±0.5	±0.5	±0.5	±0.5		

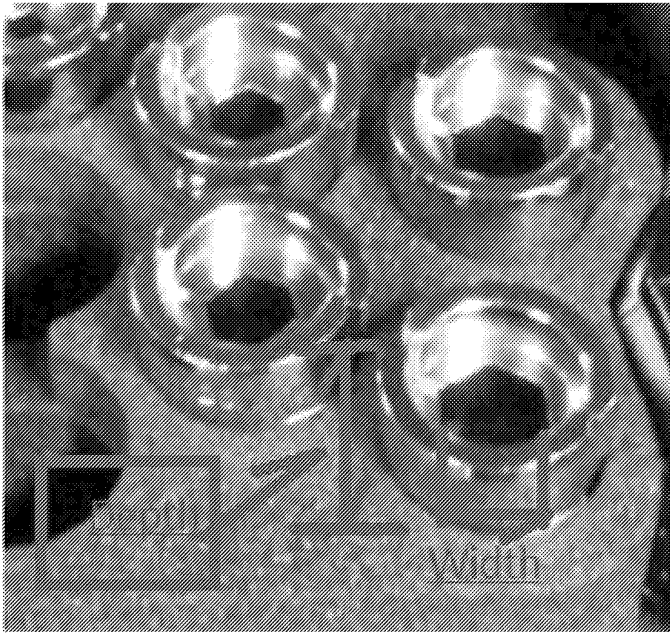
C151774246



Unit: mm

Model No.	Dimension (mm)									Conductor Strip length	Number of Crops
	I.D	O.D	L	B	W	P	C	A	Hole		
25-2H	6.7	9	95	27	13.0	64	45	9	8.4	22.0	1
35-2H	8.1	10.6	99	30	15.0	64	45	9	8.4	25.0	1
50-2H	9.5	12	109	30	17.0	73	45	12	10.4	24.9	1
70-2H	11.3	14.6	115	35	21.0	74	45	14	13	30.2	1
95-2H	13.5	17	124	38	24.5	78	45	15	13	32.3	2
120-2H	15.2	19	130	44	28.5	78	45	15	13	38.7	2
150-2H	17	21	135	47	30.5	78	45	15	13	40.4	2
185-2H	19	23.5	141	51	34.0	78	45	16	13	45.7	3
240-2H	22	28	150	56	40.0	81	45	16	13	51.4	3
300-2H	24	30.5	164	66	44.0	84	45	16	13	61.4	3
400-2H	26	34	174	72	48.0	88	45	19	13	66.5	3
	±0.1	±0.1	±0.5	±0.5	±0.5	±0.5	±0.5	±0.5	±0.5		

C151774248



SIZE	Depth	Width
16 SQ	35	6
25 SQ	35	7
35 SQ	35	8.5
50 SQ	35	10
70 SQ	35	12
95 SQ	35	13.5
120 SQ	35	15.5
150 SQ	35	17.5
185 SQ	35	19.5
240 SQ	35	22
300 SQ	35	24.5
400 SQ	35	29

Unit: mm

C151774250

TEST RECORD NO. 1

SAMPLES:

Samples of the wire connectors, Cat. Nos. 25-1H, 35-1H, 50-1H, 70-1H, 95-1H, 120-1H, 150-1H, 185-1H, 240-1H, 300-1H, 400-1H, 25-2H, 35-2H, 50-2H, 70-2H, 95-2H, 120-2H, 150-2H, 185-2H, 240-2H, 300-2H, 400-2H were subjected to the following tests in accordance with Wire Connectors, UL 486A-486B, Second Edition, February 28, 2014 and Wire Connectors, CSA C22.2 No. 65-13, Fifth Edition, December, 2013.

The Cat. Nos. 25-1H, 70-1H, 120-1H, 185-1H, 240-1H, 300-1H, 400-1H, 25-2H, 70-2H, 95-2H, 150-2H, 185-2H, 400-2H were used for investigation purposes and were considered representative of all catalog numbers covered by this report.

GENERAL:

The following tests conducted in accordance with Wire Connectors, UL 486A-486B, Second Edition, February 28, 2014 and Wire Connectors, CSA C22.2 No. 65-13, Fifth Edition, December, 2013. The testing was considered representative since the UL486A-486B document and CSA C22.2 No. 65-13 document are harmonized together and all paragraph references are identical.

Test results relate only to the items tested. The following tests were conducted.

Static Heating Sequence (Crimp Type):

7.3 (7.3)

The test methods and results of the above tests have been reviewed and found in accordance with the requirements in Wire Connectors, UL 486A-486B, Second Edition, February 28, 2014 and Wire Connectors, CSA C22.2 No. 65-13, Fifth Edition December, 2013 in effect as of the date of this Report.

Test Record Summary:

The results of this investigation, including construction review and testing, indicate that the products evaluated comply with the applicable requirements in Wire Connectors, UL 486A-486B, Second Edition, February 28, 2014 and Wire Connectors, CSA C22.2 No. 65-13, Fifth Edition, December, 2013 and, therefore, such products are judged eligible to bear the UL's Mark as described on the Conclusion Page of this Report.

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CONCLUSION

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