Certificate of Compliance

Certificate Number:
UL-US-2009262-7

Report Reference:
E469256-20141020

Issue Date:
2024-11-25

Issued to:

HIROSE ELECTRIC CO., LTD.
2-6-3 NAKAGAWA CHUOH
TSUZUKI-KU YOKOHAMA-SHI, Kanagawa 224-8540
Japan

This certificate confirms that representative samples of:
RFWV2 - Electrical Quick-connect Terminals - Component

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

UL 310, Edition 10, Issue Date 2023-11-30

Additional Information:
See UL Product iQ® at https://iq.ulprospector.com for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Recognized Component Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.

David Piecuch
UL Mark Certification Program Owner

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CERTIFICATE OF COMPLIANCE

Certificate number	UL-US-2009262-7
Report reference	E469256-20141020
Date	2024-11-25

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

Model	Product Description
DF59M-1S-H(**)	Non-insulated quick-connect copper alloy tab
DF59M-2224PCF(**)	Non-insulated quick-connect connectors for copper alloy tab
DF59M-2628PCF(**)	Non-insulated quick-connect connectors for copper alloy tab
Series DF59M, DF59M-2628SCF(**)	Non-insulated quick-connect copper alloy tab

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Certificate of Compliance

Certificate Number:
UL-CA-2007063-7

Report Reference:
E469256-20141020

Issue Date:
2024-11-25

Issued to:

HIROSE ELECTRIC CO., LTD.
2-6-3 NAKAGAWA CHUOH
TSUZUKI-KU YOKOHAMA-SHI, Kanagawa 224-8540
Japan

This certificate confirms that representative samples of:
RFWV8 - Electrical Quick-connect Terminals Certified for Canada - Component

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

CSA C22.2 No. 153:23, Edition 4, Issue Date 2023-11-30

Additional Information:
See UL Product iQ® at https://iq.ulprospector.com for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Recognized Component Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

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CERTIFICATE OF COMPLIANCE

Certificate number UL-CA-2007063-7
Report reference E469256-20141020
Date 2024-11-25

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Model	Product Description
DF59M-1S-H(**)	Non-insulated quick-connect copper alloy tab
DF59M-2224PCF(**)	Non-insulated quick-connect connectors for copper alloy tab
DF59M-2628PCF(**)	Non-insulated quick-connect connectors for copper alloy tab
Series DF59M, DF59M-2628SCF(**)	Non-insulated quick-connect copper alloy tab

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File E469256
Project 4786474479

October 20, 2014

REPORT

on

COMPONENT - ELECTRICAL QUICK-CONNECT TERMINALS

Hirose Electric Co., Ltd.
Kanagawa Japan

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DESCRIPTION

PRODUCT COVERED:

USR **and** CNR **Recognized** Component - Non-insulated quick-connect connectors for copper alloy tab,

Series DF59M:
Cat. Nos. DF59M-2224PCF(**) and DF59M-2628PCF(**). "(**)" denotes minor differences, may be (01) thru (99) or None, indicating packaging differences or plating variations. (No-construction issue)

*- Non-insulated quick-connect copper alloy tab,

Series DF59M:
Cat. No. DF59M-1S-H(**). "(**)" denotes minor differences, may be (01) thru (99) or None, indicating packaging differences or plating variations. (No-construction issue)

Cat. Nos. DF59M-2628SCF(**). "(**)" denotes minor differences, may be (01) thru (99) or None, indicating packaging differences or plating variations. (No-construction issue)

GENERAL CHARACTER AND USE:

The products covered are non-insulated quick-connect connectors and tab intended for factory termination of internal wiring of electrical equipment. They may be reel fed or loose piece. They are intended for assembly onto rated copper wire using specific tooling.

TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

* **USR -** Products designated USR have been investigated using **US requirements as noted in the Test Record.**

* **CNR -** Products designated CNR have been investigated using **Canadian requirements as noted in the Test Record.**

*

Conditions of Acceptability –

These devices are for use only in (or with) complete equipment where the acceptability of the combination is determined by UL LLC.

1. These devices are not to be used for current interruption.

2. These devices are only for internal wiring in electrical equipment.

3. These are non-standard size devices and have only been assessed for use with specific types of connectors within their product family. They have not been assessed to operate with any other similar devices from any other manufacturer.

Quick-connect connecot	Quick-connect tab
DF59M-2224PCF	DF59M-1S-H
DF59M-2628PCF	DF59M-1S-H or DF59M-2628SCF

4. The connector is intended to be assembled to rated wire using tooling as below, manufactured by Hirose Electric Co., Ltd.

Power Tooling (Cat. No.)	Wire Size AWG	Insulation/Wire Crimper (Die), Part No.	Insulation/Wire Anvil, Part No.
AP105-DF59M-2224P	22, 24	286897/286898	286899/286900
AP105-DF59M-2628P	26	286897/286902	286899/286904
AP105-DF59M-2628S	26	286897/286902	286899/286904

RATINGS:

The wire strip length is 1.3 mm minimum and 1.7 mm maximum.

The quick-connect connector is for use on the following copper wire sizes, copper alloy production tab, covered by this Report, using the specified tooling.

Cat. No.	Wire Range AWG	No. of Strands	Mating Tab Cat. No.	Crimping Tooling
DF59M-2224PCF	22	7	DF59M-1S-H	Crimping Applicator: AP105 Insulation Crimper (die): 286897 Wire Crimper(Die): 286898 Insulation Anvil: 286899 Wire Anvil: 286900
	24	(a)		
DF59M-2628PCF	26	(a)	DF59M-1S-H	Crimping Applicator: AP105 Insulation Crimper (die): 286897 Wire Crimper(Die): 286902 Insulation Anvil: 286899 Wire Anvil: 286904
	26	**(a)**	**DF59M-2628SCF**	
(a) Number of strands vary.				

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