CERTIFICATE OF COMPLIANCE

Certificate Number	UL-US-L52653-12-52309102-11
Report Reference	E52653-20190325
Date	29-Aug-2023
Issued to:	HIROSE ELECTRIC CO., LTD. 2-6-3 NAKAGAWA CHUOH TSUZUKI-KU YOKOHAMA-SHI, Kanagawa 224-8540 Japan
This is to certify that representative samples of	ECBT2 - Connectors for Use in Data, Signal, Control and Power Applications - 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.
Standard(s) for Safety:	UL 1977, Edition 4, Issue Date 2022-12-07
Additional Information:	See the UL Online Certifications Directory 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.

Deborah Jennings-Conner

Deborah Jennings-Conner, VP Regulatory Services

UL LLC

CERTIFICATE OF COMPLIANCE

Certificate Number UL-US-L52653-12-52309102-11
Report Reference E52653-20190325
Date 29-Aug-2023

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

Model	Category Description
IX, IX32G, , may be followed by -HR, -SM or -RW, followed by -A, -B or -C, followed by -8S, followed by -CV, –CVL1 or -CVL2, followed by (7.0), may be followed by (01) thru (99).	Plugs
IX, IX34G, , may be followed by -SM, followed by -B-10S-CV, followed by (7.0) or (4.2), may be followed by (01) thru (99).	Plugs
IX, IX40G, , may be followed by -HR, -SM or -RW, followed by -A or -B, followed by -10P-JC(7.0), may be followed by (01) thru (99).	In-Line Jack
IX, IX40G, IX30G or IX31G, , may be followed by -HR, -SM or -RW, followed by -A, -B or -C, followed by -10S, followed by -CV, –CVL1 or -CVL2, followed by (7.0), may be followed by (01) thru (99).	Plugs
IX, IX61G, IX60G, IX80G, IX80G2, , followed by -A or -B, followed by -10P, may be followed by (01) thru (99).	Receptacles
IX, IX61G2, , followed by -A, -B or -C, followed by -10P, may be followed by (01) thru (99).	Receptacles

Deborah Jennings-Conner

Deborah Jennings-Conner, VP Regulatory Services

UL LLC

CERTIFICATE OF COMPLIANCE

Certificate Number	UL-CA-2000690-11
Report Reference	E52653-20190325
Date	29-Aug-2023
Issued to:	HIROSE ELECTRIC CO., LTD. 2-6-3 NAKAGAWA CHUOH TSUZUKI-KU YOKOHAMA-SHI, Kanagawa 224-8540 Japan
This is to certify that representative samples of	ECBT8 - Connectors for Use in Data, Signal, Control and Power Applications 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.
Standard(s) for Safety:	CSA C22.2 No. 182.3, 2nd Ed., Issue Date: 2016-07, Revision Date: 2021-5
Additional Information:	See the UL Online Certifications Directory 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.

Deborah Jennings-Conner

Deborah Jennings-Conner, VP Regulatory Services

UL LLC

CERTIFICATE OF COMPLIANCE

Certificate Number UL-CA-2000690-11
Report Reference E52653-20190325
Date 29-Aug-2023

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

Model	Category Description
IX, IX32G, , may be followed by -HR, -SM or -RW, followed by -A, -B or -C, followed by -8S, followed by -CV, –CVL1 or -CVL2, followed by (7.0), may be followed by (01) thru (99).	Plugs
IX, IX34G, , may be followed by -SM, followed by -B-10S-CV, followed by (7.0) or (4.2), may be followed by (01) thru (99).	Plugs
IX, IX40G, , may be followed by -HR, -SM or -RW, followed by -A or -B, followed by -10P-JC(7.0), may be followed by (01) thru (99).	In-Line Jack
IX, IX40G, IX30G or IX31G, , may be followed by -HR, -SM or -RW, followed by -A, -B or -C, followed by -10S, followed by -CV, –CVL1 or -CVL2, followed by (7.0), may be followed by (01) thru (99).	Plugs
IX, IX61G, IX60G, IX80G, IX80G2, , followed by -A or -B, followed by -10P, may be followed by (01) thru (99).	Receptacles
IX, IX61G2, , followed by -A, -B or -C, followed by -10P, may be followed by (01) thru (99).	Receptacles

Deborah Jennings-Conner

Deborah Jennings-Conner, VP Regulatory Services

UL LLC

*

Project 4788654396
March 25, 2019

REPORT

on

COMPONENT - CONNECTORS FOR USE IN DATA, SIGNAL, CONTROL AND POWER APPLICATIONS

Hirose Electric Co Ltd
Kanagawa Japan

DESCRIPTION

PRODUCT COVERED:

USR, CNR Component Connector, Series IX:

*

Receptacles, Cat. Nos. **IX61G**, **IX60G**, **IX80G or IX80G2**, followed by **-A or** -B, followed by **-10P**, may be followed by (01) thru (99).

Receptacles, Cat. Nos. IX61G2, followed by -A, -B or -C, followed by -10P, may be followed by (01) thru (99).

*Plugs, Cat. Nos. **IX40G**, **IX30G** or **IX31G**, may be followed by -HR, -SM or -RW, followed by -A, -B or -C, followed by -10S, followed by -CV, –CVL1 or -CVL2, followed by (7.0), may be followed by (01) thru (99).

In-Line Jack, Cat. Nos. IX40G, may be followed by -HR, -SM or -RW, followed by -A or -B, followed by -10P-JC(7.0), may be followed by (01) thru (99).

Plugs, Cat. Nos. IX34G, may be followed by -SM, followed by -B-10S-CV, followed by (7.0) or (4.2), may be followed by (01) thru (99).

Plugs, Cat. Nos. IX32G, may be followed by -HR, -SM or -RW, followed by -A, -B or -C, followed by -8S, followed by -CV, –CVL1 or -CVL2, followed by (7.0), may be followed by (01) thru (99).

GENERAL:

These devices are multi-pole connectors intended for factory assembly on copper wire sizes or printed wiring board, only as indicated in Ratings table below, where the acceptability of combinations is determined by UL LLC. The devices are identified as follows:

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.

RATINGS:

Cat. Nos.	Voltage (Vac/Vdc)	Ampere (A)	Conductor Sizes, AWG (Str)
IX61G-A-10P(**), IX61G-B-10P(**) IX60G-A-10P(**), IX60G-B-10P(**) IX80G-A-10P(**), IX80G-B-10P(**) **IX80G2-A-10P(**), IX80G2-B-10P(**)** IX61G2-A-10P(**), IX61G2-B-10P(**), IX61G2-C-10P(**)	29	1.5	(+)
IX40G-A-10S-CV(7.0)(**), IX40G-B-10S-CV(7.0)(**) IX40G-C-10S-CV(7.0)(**), IX40G-A-10S-CVL1(7.0)(**), IX40G-A-10S-CVL2(7.0)(**) IX40G-B-10S-CVL1(7.0)(**), IX40G-B-10S-CVL2(7.0)(**) **IX40G-A-10P-JC(7.0)(**), IX40G-B-10P-JC(7.0)(**)**	29	1.0	22 - 28
IX30G-A-10S-CV(7.0)(**), IX30G-B-10S-CV(7.0)(**), IX30G-C-10S-CV(7.0)(**) IX30G-A-10S-CVL1(7.0)(**), IX30G-A-10S-CVL2(7.0)(**), IX30G-B-10S-CVL1(7.0)(**), IX30G-B-10S-CVL2(7.0)(**)	29	1.0	26 - 28
IX31G-A-10S-CV(7.0)(**), IX31G-B-10S-CV(7.0)(**), IX31G-C-10S-CV(7.0)(**) IX31G-A-10S-CVL1(7.0)(**),IX31G-A-10S-CVL2(7.0)(**) IX31G-B-10S-CVL1(7.0)(**),IX31G-B-10S-CVL2(7.0)(**)	29	1.5	24 - 25
IX32G-A-8S-CV(7.0)(**), IX32G-B-8S-CV(7.0)(**), IX32G-C-8S-CV(7.0)(**), IX32G-A-8S-CVL1(7.0)(**), IX32G-A-8S-CVL2(7.0)(**), IX32G-B-8S-CVL1(7.0)(**), IX32G-B-8S-CVL2(7.0)(**),	29	1.5	22
IX34G-SMB-10S-CV(7.0)(**), IX34G-SMB-10S-CV(4.2)(**)	29	1.5	24
(+) Mounted on printed wiring boards.			

NOMENCLATURE:

The Series IX, Receptacle are designated as follows:

Example:

IX	61	G	-A	-10	P	(**)
I	II	III	IV	V	VI	VII

I: - Series Name: IX

II: - Mounting Angle Style
61: Vertical right angle
60: Horizontal right angle
80: Vertical

III: - G: Correspond to Gigabit Ethernet
G2: Correspond to Gigabit Ethernet and PoE

IV: - Mating Key Style
-A: A key
-B: B key
-C: C key

V: - Number of Poles
-10: 10 poles

VI: - Contact Style
P: Male contact

VII: - Customer Specifications
(01) to (99) or blank: Indicating packing differences or plating variations **(Contact area: Au plating or Au & Pd plating).**

NOMENCLATURE: (CONT'D)

The Series IX, Plug are designated as follows:

IX	40	G	-HR	A	-10	S	-CV	(7.0)	(**)
I	II	III	IV	V	VI	VII	VIII	IX	X

I: - Series Name: IX

II: - Terminal Style
40: Soldering
30: IDC type, guide parts attached for 26 to 28 AWG
31: IDC type, guide parts attached for 24 AWG to 25 AWG
32: IDC type, guide parts attached for 22 AWG
34: IDC type, guide parts built-in for 24 AWG

III: - G: Correspond to Gigabit Ethernet

IV: - Cover Case Logo Style
Blank: HRS logo
-HR: HATING logo
-SM: SEIMENS logo
-RW: Rockwell logo

IV: - Mating Key Style
A: A key
B: B key
C: C key

VI: - Number of Poles
-8: 8 poles
-10: 10 poles

VII: - Contact Style
S: Female contact
P: Male contact

VIII: - Cable Outlet Direction
-CV: Straight.
-CVL1: Right angle downward cabling
-CVL2: Right angle upward cabling
-JC: In-line jack

IX: - Applicable Cable Diameter
(7.0): Sheath outside diameter 7.0 mm.
(4.2): Sheath outside diameter 4.2 mm.

X: - Customer Specifications
(01) to (99) or blank: Indicating packing differences or plating variations (Contact area: Au plating or Au & Pd plating).