

CERTIFICATE OF COMPLIANCE

Certificate Number 20191025-E52653
Report Reference E52653-20120717
Issue Date 2019-OCTOBER-25

Issued to: HIROSE ELECTRIC CO., LTD.
5-23 OSAKI 5-CHOME
SHINAGAWA-KU
TOKYO 141-8587 JAPAN

This certificate confirms that representative samples of COMPONENT - CONNECTORS FOR USE IN DATA, SIGNAL, CONTROL AND POWER APPLICATIONS
SEE ADDENDUM PAGE

Have been investigated 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, Component Connectors for Use in Data, Signal, Control and Power Applications
CAN/CSA C22.2 No. 182.3-16, Special Use Attachment Plugs, Receptacles and Connectors

Additional Information: See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information.



Bruce Mahrenholz, Director North American Certification Program

UL LLC

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This *Certificate of Compliance* does not provide authorization to apply the UL Recognized Component Mark. Only the UL Follow-Up Services Procedure 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.



A handwritten signature in black ink, appearing to read 'Bruce Mahrenholz'.

Bruce Mahrenholz, Director North American Certification Program

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

Models/Product

Component Connectors, Series DF62:

Cat. No. DF62B-*S-2.2C**, DF62C-*S-2.2C** DF62B-*EP-2.2C**, and DF62P-*EP-2.2C** where * designated the number of pole from 2 to 24 and ** is any number from (01) thru (99) or blank.

Cat. No. DF62-*P-2.2DS**, DF62-*P-2.2DSA** where * designated the number of pole from 13 or 24 and ** is any number from (01) thru (99) or blank.



A handwritten signature in black ink that reads "Bruce Mahrenholz".

Bruce Mahrenholz, Director North American Certification Program

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File E52653
Project 12CA03873

July 17, 2012

REPORT

on

COMPONENT - Connectors for Use in Data, Signal, Control and Power
Applications

Hirose Electric Co Ltd
YOKOHAMA-SHI, KANAWAGAWA, Japan

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DESCRIPTION

PRODUCT COVERED:

USR, CNR Component Connectors, **Series DF62:**

Cat. No. DF62B-*S-2.2C**, DF62C-*S-2.2C** DF62B-*EP-2.2C**, and DF62P-*EP-2.2C** where * designated the number of pole from 2 to 24 and ** is any number from (01) thru (99) or blank.

Cat. No. DF62-*P-2.2DS, DF62-*P-2.2DSA** where * designated the number of pole from 13 or 24 and ** is any number from (01) thru (99) or blank.**

GENERAL:

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

USR indicates investigation to United States Standards, UL 1977.

CNR indicates investigation to Canadian National Standards, C22.2 No. 182.3.

RATINGS:

Connector Type	Terminal Type	Conductor Sizes, AWG (Str)	Ampere (A)	Voltage (Vac/Vdc)
Female Socket; DF62B-*S-2.2C** DF62C-*S-2.2C**	DF62-22SC***	22	3	29.9
	DF62-2428SC***	24	2	
		26-28	1	
	DF62-30SC***	30	1	
Male Plug; DF62B-*EP-2.2C** DF62P-*EP-2.2C**	DF62-EP22PC***	22	3	29.9
	DF62-EP2428PC***	24	2	
		26-28	1	
	DF62-EP30PC***	30	1	
Pin Header; DF62-13P-2.2DS** DF62-13P-2.2DSA** DF62-24P-2.2DS** DF62-24P-2.2DSA**	Header Pin, Solder Type	(+)	3	29.9

Note: *** may be additional F (reel packing) and A (gold plating)

(+) Mounted on printed wiring boards.

Disconnecting Use - see Sec Gen for required marking

NOMENCLATURE:

1. Socket connector

Example:

DF62B-	12	S	-	2.2	C	(01)
*i	ii	iii		iv	v	vi

- (i) **Product Shape**
B - Normative Shape
C - Enhanced lock-protection type
- (ii) Number of contacts
* 2 to **24**
- (iii) Contact type
S - female contact
- * (iv) Contact pitch in mm
2.2
- * (v) Mounting or cable assembly
C - crimp contact
- (vi) Customer specification (packaging)
Blank or two digits 01 thru 99.

2. Plug connector

Example:

DF62B-	13	EP	-	2.2	C	(01)
*i	ii	iii		vi	v	vi

- (i) **Product Shape**
B - Normative style
P - Panel Mount type
- (ii) Number of contacts
* 2 to **24**
- (iii) Contact type
EP - Male contact for junction plug
- * (vi) Contact pitch in mm
2.2
- * (v) Mounting or cable assembly
C - crimp contact
- (vi) Customer specification (packaging)
Blank or two digits 01 thru 99.

3. Pin-Header**Example:**

DF62-	13	P	-	2.2	DS	(01)
i	ii	iii		iv	v	vi

(i) Product Shape

DF62 - Normative Shape

(ii) Number of contacts

13 or 24

(iii) Contact type

P - male contact

(iv) Contact pitch in mm

2.2

(v) Mounting

DS - straight

DSA - right angle

(vi) Customer specification (packaging)

Blank or two digits 01 thru 99.

4. Crimp contact*Example:**

DF62-	EP	2428	PCF	A	(01)
	i	ii	iii	iv	v

(i) intended purpose

EP - for junction plug

(ii) applicable wire size

22 - 22 AWG

2428 - 24 AWG to 28 AWG

30 - 30 AWG

(iii) contact type and package presentation

PCF - male contact, reel pack

PC - male contact, jumble pack

SCF - female contact, reel pack

SC - female contact, jumble pack

(iv) contact plating

A - gold plating

None - tin plating

(v) Customer specification (body color, contact plating or packaging)

Blank or two digits 01 thru 99.