

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 9950703

Blatt *Page*
13

Ihr Zeichen *Client Reference*
K.S.

Unser Zeichen *Our Reference*
ZJL-MAS- 09961416 010

Ausstellungsdatum
21.12.2020

Date of Issue
(day/mo/yr)

Genehmigungsinhaber *License Holder*

Hirose Electric Co., Ltd.
2-6-3 Nakagawa-Chuo, Tsuzuki-ku
Yokohama-shi, Kanagawa
224-8540 Japan

Fertigungsstätte *Manufacturing Plant*

Koriyama Hirose Electric Co., Ltd.
87-3 Okawara
Koriyama-shi, Fukushima
963-8828 Japan

Prüfzeichen *Test Mark*



Geprüft nach *Tested acc. to*
EN 61984:2009

Zertifiziertes Produkt *(Geräteidentifikation)*
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Connector as page 01

Change

for Type Designation DF22B/C-rRS/P-7.92(Y) - (Retainer)

Value for suffix r: 2 to 5
changed to: 1 to 5



ANLAGE (Appendix): 1.4

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.
This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg
Tel.: (+49/221)8 06 - 13 71 e-mail: cert-validity@de.tuv.com
Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety

Zertifizierungsstelle

Vilmos Sztaroveczki

Constructional Data Form

Page 1/4

Applicant: Hirose Electric Co., Ltd.
Full Address: 2-6-3 NakagawaChuoh, Tsuzuki-Ku, Yokohama 224-8540 Japan

Factory: Koriyama Hirose Electric Co., Ltd. .
Full Address: 87-3, Ogawara, Koriyama-shi, Fukushima, 963-8828, Japan

Hirose Electric (Dongguan) Co., Ltd.
Shen Gjing Gong Ye Qu Su Xin Gun Lu Duar , Chan Ma Gong Lu Cang Ping Zhen,
Dong Guan City GUANG DONG PROVINCE P.R. CHINA

Kind of Equipment: Connector

Type Designation: DF22 series (refer to page 2 to 4)

Mark of Origin: **HS**

Dimensions: Refer to drawing

Weight: -

Parts: Pin header , Plug and socket housing , Retainer
Contact,

Materials: Header , Housing and Retainer : Polyamide (PA)
Contact : Copper Alloy

Operation instructions: AC / DC 600 V
For Crimp contact type DF22a-1012b
- AWG 10
32 A (1 contact) : 30 A (2 or 3 contacts) : 28 A (4 contacts) : 27 A (5 contacts)
- AWG 12
26 A (1 contact) : 25 A (2 contacts) : 24 A (3 contacts) : 23 A (4 or 5 contacts)
For Crimp contact type DF22a-1416b
- AWG 14
20 A (1 contact) : 18 A (2 or 3 contacts) : 16 A (4 or 5 contacts)
- AWG 16
15 A (1 , 2 or 3 contacts) : 14 A (4 or 5 contacts)
- Wire attachment: Crimp type
- Locked/Non locked: Locked

Other technical information's :

Rated Voltage : see " Operation instructions "
Rated Current : see " Operation instructions "
Temperature Range : -35 to 85 °C (including temperature rise)

Köln, den 2020 Dec. 17

In Masuda

TÜV Rheinland
Product Safety GmbH

Yokohama.

(Place)

17. 12. 2020

(Date)

Kenichi SATO

KSato
(Stamp and Signature of Applicant)

Constructional Data Form

Page 2/4

Protection Degree : IP 00
Life time cycles : 30 cycles for tin plating , 300 cycles for gold plating : (Customer specifications)
Number of Contact : 1 to 5
Overvoltage category : II
Pollution degree : 2
Creepage distance : 6.4 mm (for type DF22- , DF22A- , DF22B- or DF22C-)
Clearance : 3.42 mm (for type DF22- or DF22A-) , 5.6 mm (for type DF22B- or DF22C)

Type nomenclature:

Pin Header

DF22# – n P – 7.92\$ (YY)

DF22 : series name

: keying , A , B , C , R , L , AR , AL , BR , BL , CR , CL , or blank.

n : number of contact 1 – 5

P : type (Pin Header)

7.92 : contact pitch

\$: kind of terminal : DSA (straight pin header) DS (right angle pin header)

(YY) : customer specifications , blank or (01) - (99)

Socket

(1) DF22# – n S – 7.92C (YY)

DF22 : series name

: keying , A , B , C , R , L , AR , AL , BR , BL , CR , CL , or blank.

n : number of contact 1 - 5

S : type (Socket)

7.92 : contact pitch

C : solderless terminal case

(YY) : customer specifications , blank or (01) - (99)

(2) DF22# – 4 DS – 7.92C (YY)

DF22 : series name

: keying , B , C , R , L , AR , AL , BR , BL , CR , CL.

4 : number of contact 4

DS : type (Socket)

7.92 : contact pitch

Köln, den 2020 Dec. 17

In Masuda

TÜV Rheinland
Product Safety GmbH

Yokohama.

(Place)

17. 12. 2020

(Date)

Kenichi SATO

K. Sato
(Stamp and Signature of Applicant)

Constructional Data Form

Page 3/4

Plug

(1) DF22# – q EP – 7.92C (YY)

DF22 : series name

: keying , A , R , L , AR , AL , or blank.

q : number of contact 1 – 3

EP : type (plug)

7.92 : contact pitch

C : solderless terminal case

(YY) : customer specifications , blank or (01) - (99)

(2) DF22# – 4 DEP – 7.92C (YY)

DF22 : series name

: keying , A , R , L , AR , AL , or blank.

4 : number of contact 4

DEP : type (plug)

7.92 : contact pitch

Retainer

DF22 B/C – r RS/P – 7.92 (YY)

DF22 : series name

B/C , RS/ P : type (Retainer)

r : number of contact 1 – 5

7.92 : contact pitch

(YY) : customer specifications , blank or (01) - (99)

Köln, den 2020 Dec. 17



TÜV Rheinland
Product Safety GmbH

Yokohama.

(Place)

Kenichi SATO

(Stamp and Signature of Applicant)

17. 12. 2020

(Date)

Constructional Data Form

Page 4/4

crimp contact

DF22a-w b (YY)

a : cramp type can be : A or blank

b : packaging and contact plating can be

- : SC (Socket contact separated and tin plating)
- : SCA (Socket contact separated and gold plating)
- : SCF (Socket contact reeled and tin plating)
- : SCFA (Socket contact reeled and gold plating)
- : PC (Plug contact separated and tin plating)
- : PCA (Plug contact separated and gold plating)
- : PCF (Plug contact reeled and tin plating)
- : PCFA (Plug contact reeled and gold plating)

w : wire size can be 1012 (10 or 12 AWG for Socket contact only) or

1416 (14 or 16 AWG)

(YY) : customer specifications , blank or (01) - (99)

Köln, den 2020 Dec. 17

In Masuda

TÜV Rheinland
Product Safety GmbH

Yokohama.

(Place)

Kenichi SATO

(Stamp and Signature of Applicant)

17. 12. 2020

(Date)