1. Scope

This document specifies the process from crimping the DF22-series crimp contacts with wire (AWG10 - AWG16) to inserting crimped wires to crimping socket.

2. Product number structure

1 Series Name:DF22 2 Form Type	
Sockets	
Blank:Standard height,standard lock	
B:Long type,standard lock	
C:Long type,ergonomic lock	
In-line plugs	
Blank:With panel stop	
A:Without panel stop	
3 Guide key type	
Blank:Inside(Color:natural)	
R:Right side (Color:black)	
L:Left side (Color:red)	
4 Number of contacts:1 to 5	
5 Connector type	
S:Socket	
DS:Double-row socket	
EP:In-line plug	
DEP:Double-row in-line plug RS/P:Retainer	
6 Contact pitch : 7.92mm	
Type of housing	
C:Crimping housing	
Blank:Retainer	

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED			CHECKED		DATE
A								
名	名称 TITLE HIROSE ELECTRIC CO., LTD.				. , LTD.			
DF2	2 Series	Cable Assembly Procedure		APPRO	OVED	HS. OKAWA		16. 12. 09
				CHEC	KED	TS. FUKUSHI	MA	16. 12. 09
				DESIC	GNED	TS. KUMAZAW	A	16. 12. 09
				WRIT	TEN	TO. KUROMATS	SU	16. 12. 09
	技 征	析指定書 TECHICAL SPECI	FICATION	E	TAD-H	0798–00	Δ	1/8
FORM	1 HCOO11-	9–1						

■Contact <u>DF22 A –1416</u> – <u>SCF A</u> 1 2 3 4
Applicable wire
Blank:UL1430
A:UL1015
Applicable Conductor
1416:14 to 16 AWG
1012:10 to 12 AWG
3 Packaging
SCF:Socket contacts/reel
SC:Socket contacts/pack
PCF:In-line plug contacts/reel
PC:In-line plug contacts/pack
Plating specifications
Blank:Tin plated
A:Gold plated

3. Process for harnessing

3.1. Cable stripping

Strip cables in accordance with appointed "Crimping Quality Standards" (TAD-5024-***).

In so doing, make sure there is no scratch on wire cores.

3.2. Crimping

Crimp contact with wire using appropriate applicator (AP109A-DF22#-****) and check the crimping height and shape in accordance with the "Table of Crimping Conditions" and "Crimping Quality Standards".

In the case of using a cabtyre cable, etc., perform crimping so that the terminal insertion direction is correct when it is inserted into the crimping socket.

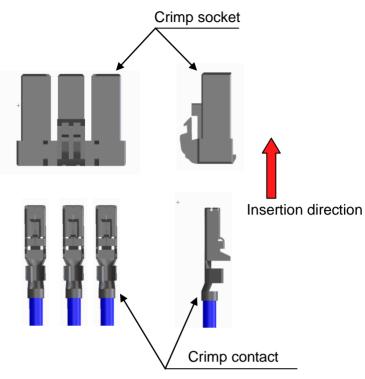
	Crimping Quality Standards	Applicator
DF22-1416SCF	TAD-5024-060	AP109A-DF22-1416
DF22-1416SCFA		
DF22-1416PCF	TAD-5024-063	
DF22-1416PCFA		
DF22A-1416SCF	TAD-5024-061	AP109A-DF22A-1416
DF22A-1416SCFA		
DF22A-1416PCF	TAD-5024-064	
DF22A-1012SCF	TAD-5024-065	AP109A-DF22A-1012
DF22A-1012SCFA	TAD-5024-066	



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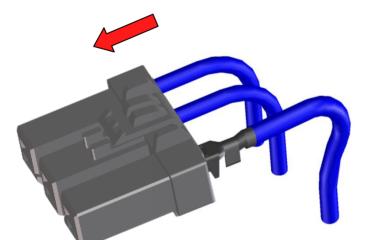
3.3. Insert crimped contact to socket

Hold the wire of a crimped contact, and insert it to each contact hole of crimping sockets. *The figures show insertion to DF22-3S-7.92C(28) and DF22-1416SCF.



How to insert wire into multipole contact

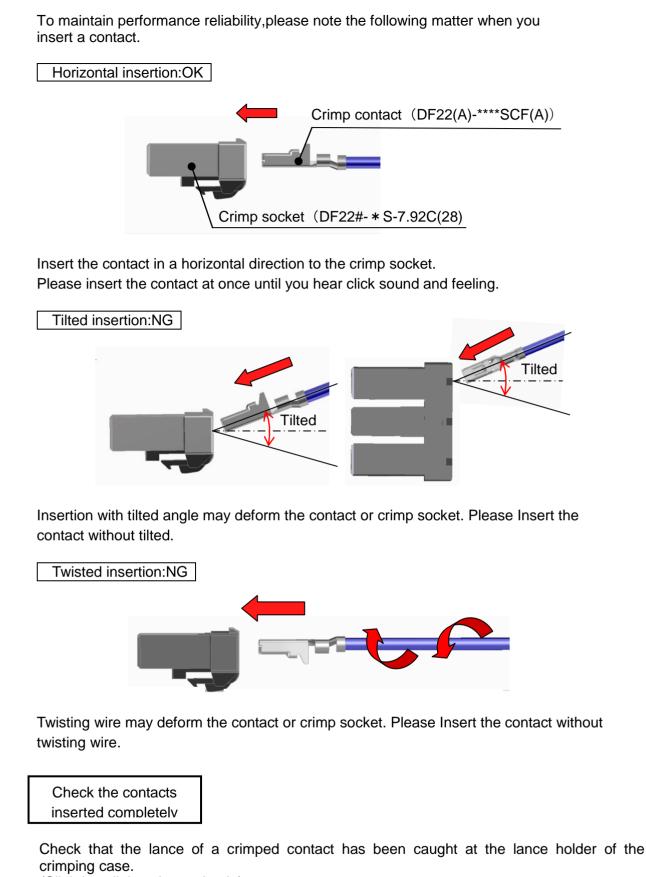
The insertion of wire in a bended state allows users to carry out the operation without any difficulty as shown in the drawing below.





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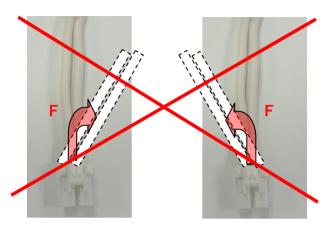
(Slightly pull the wire to check.)

Pull(Less than 45N)

Crimping sockets (DF22#- * S-7.92C(28))

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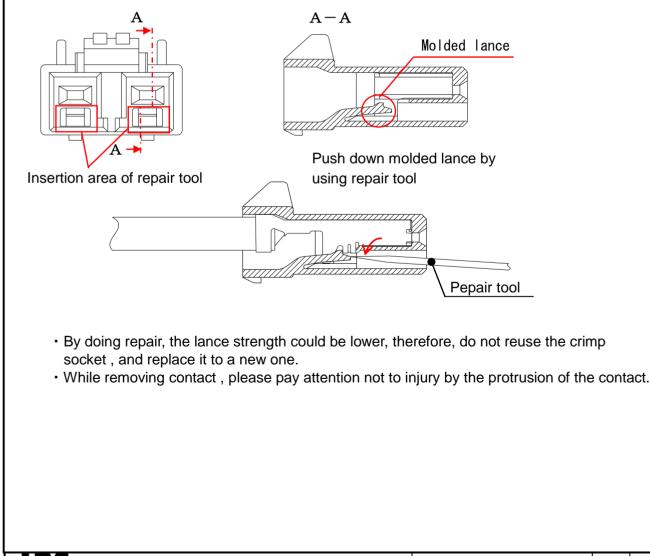
*Prohibited matters when checking contact insertion When checking the contact insertion state, please do not bend the wires as shown in the drawing below. In case of thick core wire which is not very supple, and therefore, failure to observe this prohibition may apply stress to the connectors, which may cause the contacts to be disconnected.



3.4. Removing contacts

Push down molded lance by using precision screwdriver , and pull out the wire Simultaneously.

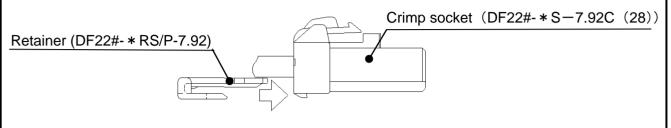
Repair tool : Precision screwdriver (Flat-bladed screwdriver, blade width 1.4mm)



3.5. Assemble retainer

After checking crimped contact insertion completely,insert retainer to crimp socket shown below

• Retainer insertion direction See below for the Insertion direction.



- To maintain performance reliability, please note the following matter when you assemble retainer.
 - ①Insert the retainer in a horizontal direction to the crimp socket.
 - ②Please insert the retainer at once until you hear click sound and feeling.
 - ③Please make sure that the contact has been inserted properly so that the retainer can be installed.

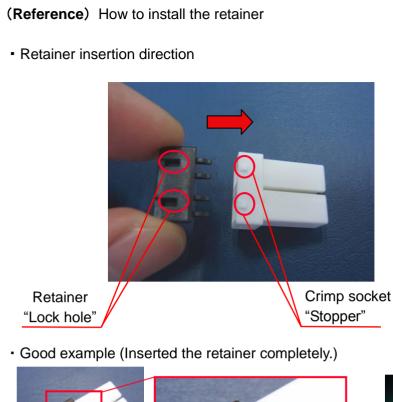
3.6. Repair of the retainer

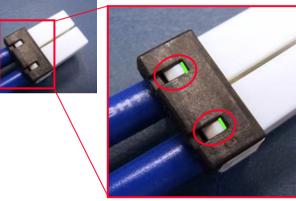
Pull out and remove the retainer as shown below.

Crimp socket (DF22#- * S-7.92C (28))

• By doing repair, the retainer lock strength could be lower, therefore, do not reuse the retainer, and replace it to a new one.

FORM HC0011-9-2



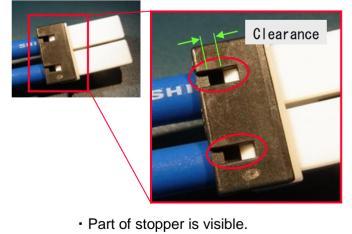


- Stopper is visible from the lock hole.
- Stopper face (Part of green line) is confirmable.



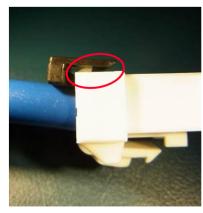
• Front edge of the retainer is touching to the crimp housing.

• NG (Incomplete insertion)



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Large clearance.



Retainer is stranded on the stopper.



4. Precautions for handling

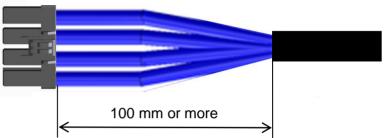
*Packing and storage

For packaging and storage of cable assemblies, please consider not to apply excessive force to the lock portion by its own weight.

Long term storage under hot and humid condition could cause deformation of the lock portion and result in mating failure.

* Cable tying/Cabtyre cable stripping length

- Tying the cables near the socket may cause terminal disconnection, cable cut, unstable contact, etc. Thus, it is recommended to tie and strip the cables at a point at least 100 mm from the socket.



When using a multipole terminal, be aware that the strip length for the outside cables should be longer to provide it with a flection portion, as well as to not apply any load such as excessive torsion.

