

Manual crimping tool

INSTRUCTION MANUAL



Be sure to read this Instruction Manual carefully before using it to secure safety in operation. In addition, save this Instruction Manual so that it is available whenever necessary for review.



FOR SAFE OPERATION

The operators of the tool and the maintenance personnel who are in charge of maintenance and repair work are required to read the following SAFETY INSTRUCTIONS.

Fully understand and follow the descriptions given in this Instruction Manual and the warning symbols attached to the tool.

(I) Description of warning symbols

DANGER	Misuse of the tool will expose the operator to immediate danger of major injury or death.
A WARNING	Misuse of the tool may expose the operator to danger of major injury or death.
A CAUTION	Misuse of the tool may expose the operator to danger of injury and may cause damage to property.
Major injury : Loss	s of eyesight, wounds, burns (hyperthermal and hypothermal burns), electric shocks, fracture of a bo

poisoning, etc. requiring emergency treatment or extended medical care.

Injury (Minor injury) : Wounds, burns, electric shocks, etc. requiring medical treatment. Damage to property : Damage to the machinery and or the surrounding area.

SAFETY INSTRUCTIONS

Basic safety instructions

1. Be sure to read understand and follow all the instructions and other materials supplied with the unit as before using the tool. Save this Instruction Manual and make it available for review whenever necessary.

CAUTION -

Safe operation

1. Be sure to use the tool as instructed so that your fingers or are not part of clothing caught in the tool during crimping operation.

Application

- 1. This tool shall only be used for its originally intended purpose while following the instructions specified in this Instruction Manual. Hirose assumes no responsibility for any misuse of the tool other than the intended use.
- 2. Modifications to this tool is prohibited. We assume no responsibility for accidents resulting from modifications.

Maintenance

- 1. To prevent possible accidents caused by unfamiliarity with the operation of the tool, repair and adjustment of the tool shall be conducted only by maintenance personnel who have a full knowledge of the tool. Any repair and adjustment beyond the range covered by the instructions given in this Instruction Manual is prohibited. We assume no responsibility for accidents caused by improper repair or adjustment or the use of non-genuine part(s).
- 2. To protect against personal injury, check to be sure that screws and nuts are properly tightened after the completion of repair/adjustment works or replacement of the parts.
- 3. Periodically cleaning of the tool is recommended.
- 4. In the event that your tool fails to perform normally after repair or adjusting immediately stop the work and contact us for service so as to protect against personal injury.

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1. Forward

Thank you for purchase of our manual crimping tool.

This is the Instruction Manual for the manual crimping tool.

For safe operation read, understand and follow this Instruction Manual.

2. Precautions in handling the tool and maintenance

Precautions in handling

- (1) Fine adjustment of the crimp height cannot be performed with the manual crimping tool. In case the cable to be used is different from the specified one, the cable is not applicable to the tool even when the cable is in the range of applicable cable for the contact.
- (2) Never crimp any material other than applicable contacts and applicable cables given in this Instruction Manual.
- (3) Never apply any physical impact to the tool by tapping or dropping from an elevated place.
- (4) The handle cannot be opened before releasing the ratchet. Forcibly opening the handle is strictly prohibited since doing so can cause the tool to break down.
- (5) If applying an extra load to the handle continuously after the ratchet is released, the handle may sometimes remain closed and fail to open. In this event, put a screwdriver or the like in the handle to open it as shown in Fig. 1.
- (6) If the tool is defective, do not disassemble it but contact us for repair while showing the detailed description of the defect.



Fig. 1

Maintenance and inspection

Routine maintenance

- (1) Upon completion of works, wipe the tool to remove stains and foreign materials with a piece of soft cloth and close the handle to avoid any foreign material from entering the crimper and the anvil. Then, store the tool in a dry place.
- (2) When opening/closing the handle, check to be sure that the anvil smoothly slides without galling. Periodical maintenance

Hirose performs maintenance service to judge whether the tools used are in the proper state. Please ask our sales office or agents when you desire to receive such maintenance service.

Repair of tools

When the trouble of tool has occurred and you desire to repair the tool, please ask our sales office or agents by clearly describing the contents of trouble while keeping the state as it is without disassembling the tool.

Please note that the tool may not be able to be repaired in accordance with the contents of trouble.

3. Basic outline of crimping operation

This section describes basic general matters on the crimping operation.

3-1. Configuration and function of crimping contact

3-1-1. Configuration of crimping contact



3-1-2. Function of each part of crimping contact

(1) Wire barrel (contact wire crimping section)

This barrel has a shape of letter U and plays a role in caulking and holding the conductor by mechanical force and connecting the conductor to the contact.

The range of applicable wire can be determined by the size of the wire barrel. The required performance cannot be obtained if the wire other than the applicable wire is crimped, and as a result, serious accident in quality may occur.

(2) Insulation barrel

This is a barrel to hold the outer cable insulation. It has a function of strain relief, preventing transmission of force to a conductor crimp area.

(3) Lance

This plays a role of the locking device so that the contact cannot be withdrawn from the housing when the contact is inserted into the housing (insulation case).

If the lance is deformed, the locking device does not function after the contact is inserted into the housing. As a result, the contact may be withdrawn from the housing or a given fixed force may not be obtained.

(4) Bell mouth

This is set in order to prevent the wire break at the end face of the barrel and to stabilize the tensile force at the crimping part.

(5) Serration

There is a case that a dimple of parallel or cross knurl is set on the inside of the wire barrel. This is called "Serration". Serration promotes the destruction of the oxide film on the barrel face and the conductor at the time of crimping and aims for more electrically stabilizing the connection.

(6) Contact section

A section to allow electrical connection with a mating contact when the female and male of the connectors are engaged with each other.

3-2. Stripping of wire covering

3-2-1. Correct stripping length

Stripping length of the wire is specified for each contact. The quality of working property of crimping depends on the accuracy of finishing of the stripping length. So, be careful.



When crimping is performed, the conductor should protrude from the top end of the wire barrel, and the covering should not be pulled in the insulation barrel or not be entered inside the wire barrel.

3-2-2. Wire stripped condition

- (1) Conductor should be free from any damage or partially broken or missing wires.
- (2) Length of the conductor or cut-off end face of the covering should not be irregular nor loosened.



3-3. Bell mouth



Check to be sure that the contact that has been crimped is provided with a bell mouth at the rear.

Size of the bell mouth varies according to different contacts. If the bell mouth is excessively small, there is a danger of wire break of the conductor at the end face of the wire barrel or shortage of the tensile strength at the crimped section.

3-4. Crimp height

Crimp height is an essential factor in determining the crimping quality of the crimped contact.

If the crimp height is out of the standard, there is a danger of causing a serious accident.

In case of the manual crimping tool, even when the wire is in the range of the applicable wire for the contact, there is a case where the tool is not applicable to the wire used. So, be careful.

3-4-1. Measuring the crimp height

Use the micrometer for measuring the crimp height to measure the crimp height.



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3-5. Tensile strength of crimped section and measuring method

3-5-1. Tensile strength of crimped section

This is the strength that can be endured when the wire conductor that has been crimped (wire barrel section) is pulled. Tolerance value is set to each contact and each wire.

3-5-2. Testing method of tensile strength

Crimp a wire having a little larger stripping length so that the insulation barrel does not function, and install it on the tension tester to measure the value at which the wire is broken. (Set the pulling speed of the wire at 20mm to 80mm/min.)

3-6. Confirmation of the shape of contact after crimping

3-6-1. Standard of good products

- (1) The crimp height is in the specified range.
- (2) The bell mouth is correct size.
- (3) The protrusion of the conductor is correct.
- (4) The covering is not inserted into the conductor barrel.
- (5) The covering is properly crimped onto the insulation barrel.
- (6) The conductor does not protrude from the wire barrel.
- (7) The contact section of the contact is not deformed.
- (8) The lance is not deformed.
- (9) The wire barrel has no noticeable burr.
- (10) The finished crimped section is free from any crack or rough barrel outside surface.
- (11) The contact is not deformed.



4. Configuration of tools



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5. Table of tools

No.	Product No. of tool	HRS No. of tool	Product No. of	HRS No. of		Stand	ard applicable wire for	tool
			applicable contact	applicable contact	STYLE No.	AWG No.	Sectional area (mm ²)	Outside diameter of covering
1	RP13-TC-11	150-0024-3	RP13-PC-112	113-0178-7		18 to 22	0.865 to 0.343	φ 1.9 MAX
2	RP13-TC-12	150-0025-6	RP13-PC-121	113-0361-3		24 to 28	0.221 to 0.057	φ 1.4 MAX
			RP13-PC-122	113-0179-0				
			DF1-PD2428SCB	541-0661-9				
			DF1B-2428PC	541-0665-0				- -
3	RP13A-TC-11	150-0026-9	RP13A-SC-112	113-0180-9		18 to 22	0.865 to 0.342	φ 1.9 MAX
4	RP13A-TC-12	150-0027-1	RP13A-SC-121	113-0363-9		24 to 28	0.221 to 0.089	φ 1.4 MAX
	Ki 15/Y 10-12	150-0027-1	RP13-SC-122	113-0181-1		24 10 20	0.221 10 0.009	Ψ 1.4 MAX
5	RP17-TC-11	150-0043-8	RP17-PC-112	113-0503-6	UL1007	18 to 22	0.865 to 0.324	φ 1.7 MAX
	M1/-10-11	150-0045-0	RP17-SC-112	113-0505-0		10 10 22	0.000 10 0.024	ψ 1.7 MAX
6	RP17-TC-12	150-0044-0	RP17-PC-122	113-0504-9	UL1007	24 to 30	0.221 to 0.055	φ 1.2 MAX
	M 17 10 12	100 00 11 0	RP17-SC-122	113-0506-4		2110 50	0.221 10 0.055	Ψ 1.2 ML VX
7	RP19-TC-11	150-0048-1	RP19-PC-112	113-0267-5		18 to 22	0.865 to 0.342	φ 1.79 MAX
ŕ	KI 19-10-11	150-0048-1	RP19-SC-112	113-0269-0		18 10 22	0.803 10 0.342	ψ 1.79 MAX
8	RP19-TC-12	150-0049-4	RP19-PC-122	113-0268-8		24 to 30	0.221 to 0.055	φ 1.15 MAX
0	Kr 19-10-12	150-0049-4	RP19-FC-122 RP19-SC-122	113-0208-8		2410 30	0.221 10 0.055	ψ 1.15 MAA
9	11022 742420110	150.0200.4		113-0270-0		24 to 28	0.221 to 0.080	# 1 15 MAY
9	HR22-TA2428HC	150-0200-4	HR22-PC-122			24 to 28	0.221 to 0.089	ϕ 1.15 MAX
10	HT104/HR24-1	150-0211-0	HR22-SC-122	122-0016-6	UL1007	18 to 24	0.865 to 0.221	ϕ 2.1 to ϕ 1.5
10			HR24-PC-211	124-5012-5				
11	HR25-TA3032HC	150-0207-3	HR25-PC-111	125-0419-1	UL1571	30	0.055	ϕ 0.7 MAX
12	UT102/UD20 1	150.0000 (HR25-SC-111	125-0421-3	101671	264-20	0.141/- 0.055	
12	HT102/HR30-1	150-0229-6	HR30-PC-111	130-0022-3	UL1571	26 to 30	0.141 to 0.055	ϕ 1 MAX
12		150.0000.0	HR30-SC-111	130-0023-6		10 / 00	0.0(5) 0.010	
13 14	RP34-1/CR-HT	150-0202-0	RP34-SC-112	113-5076-4		18 to 22	0.865 to 0.342	φ 1.8MAX
	HT102/PR34L-SC1-212	150-0210-8	RP34L-SC1-212	113-5151-8		18 to 22	0.865 to 0.342	φ 1.8MAX
15	DN50-TA2628HC	250-0101-0	DN50-2628PC1	225-0007-2	UL1007	26 to 28	0.141 to 0.089	ϕ 1.3 to ϕ 1.2
16 17	HT104/PX50-3	250-0229-4	PX50-SC-131	236-0008-9	UL1007	16 to 18	1.317 to 0.865	ϕ 2.4 to ϕ 2.1
17	HIF3-TA2022HC	550-0124-0	HIF3-2022SC	562-0492-4	UL1007	20 to 22	0.534 to 0.342	ϕ 1.8 to ϕ 1.6
10	HIF3-TA2428HC	550-0100-2	HIF3-2428SC	562-0124-0	UL1007	24 to 28	0.221 to 0.089	ϕ 1.5 to ϕ 1.2
19		550 0154 1	HIF3-2428SCA	562-0246-8	111 1007	22 +- 26	0.2424-0.141	414 412
19	HIF3-TB2226HC	550-0154-1	HIF3-2226SCC	613-0004-7 619-0214-8	UL1007	22 to 26	0.342 to 0.141	ϕ 1.6to ϕ 1.3
20	HIF3-TB2630HC	550-0155-4	A1-2226SCC HIF3-2630SCC		UL1007	26 40 20	0.141 to 0.055	4124 411
20	HIF3-1 D2030HC	550-0155-4	A1-2630SCC	613-0003-4 619-0215-0	ULIU0/	26 to 30	0.141 10 0.055	ϕ 1.3 to ϕ 1.1
21	A3B-TA2630HC	550-0200-7	A3B-2630SCC	621-0302-0	UL1007	26 to 30	0.141 to 0.055	ϕ 1.2 to ϕ 1.1
22	АЗВ-ТАЗ2НС	550-0213-9	A3B-32SCC	621-0304-5	UL1571	32	0.035	φ 0.54
23	ЕС1-ТА2226НС	550-0213-5	EC1-2226SC	535-0101-2	UL1007	22 to 26	0.342 to 0.141	ϕ 1.6 to ϕ 1.3
24	PCN10-TA2226HC	550-0218-2	PCN10-2226SC	583-0216-8	UL1007	22 to 26	0.342 to 0.14	ϕ 1.6 to ϕ 1.3
25	PCN10-TA2630HC	550-0163-2	PCN10-2630SC	583-0102-9	UL1007	22 to 20 26 to 30	0.141 to 0.055	ϕ 1.3 to ϕ 1.1
26	DF1-T2428S	550-0103-2	DF1-2428SC	541-0135-6	UL1007	24 to 28	0.221 to 0.089	ϕ 1.5 to ϕ 1.2
27	DF2-TA2428HC	550-0102-0	DF2-24289C	542-0021-3	UL1007	24 to 28	0.221 to 0.089	ϕ 1.5 to ϕ 0.9
	D12 112 120110	550 0172 5	D12 24201 C	542 0021 5	(UL1061)	2110 20	0.221 10 0.009	φ 1.5 to φ 0.5
28	DF3-TA2428HC	550-0164-5	DF3-2428SC	543-0002-5	(011001) UL1007	24 to 28	0.221 to 0.089	ϕ 1.5 to ϕ 1.2
20	D13-174242811C	550-0104-5	DF3-2428SCC	543-0047-3	011007	24 10 20	0.221 10 0.009	ψ 1.5 to ψ 1.2
29	DF3-TA22HC	550-0257-4	DF3-2428SCC DF3-22SC	543-0047-5	UL1061	22	0.342 to 0.141	φ 1.3
30	DF3EP-TA2428HC	550-0184-2	DF3-22SC DF3-EP2428PC	543-0063-0	UL1007	22 24 to 28	0.342 to 0.141 0.221 to 0.089	$\frac{\phi 1.3}{\phi 1.5 \text{ to } \phi 1.2}$
	DI JEI - 174242011C	550 5107-2	DF3-EF2428FC DF3-EP2428PCA	543-0005-0	01100/	27 10 20	0.221 10 0.007	Ψ 1.5 10 Ψ 1.4
31	DF4-TA2428HC	550-0173-6			LII 1007	24 to 20	0.221 to 0.090	φ15ta φ12
32	DF5-1822/CR-HT	550-0173-6	DF4-2428PC DF5-1822SC	544-0021-6	UL1007 UL1007	24 to 28	0.221 to 0.089 0.865 to 0.342	ϕ 1.5 to ϕ 1.2
33	DF5-1822/CR-HT DF5A-1822/CR-HT	550-0265-2	DF5-1822SC DF5A-1822SC	676-0002-4	UL1007	18 to 22 18 to 22	0.865 to 0.342	$\phi 2.1 \text{ to } \phi 1.6$ $\phi 2.9 \text{ to } \phi 2.4$
34	DF5A-1822/CK-H1 DF6-TA1822HC	550-0203-2						
54		550-0174-9	DF6-1822PC	546-0010-2	UL1007	18 to 22	0.865 to 0.342	ϕ 2.1 to ϕ 1.6

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No.	Product No. of tool	HRS No. of tool	Product No. of	HRS No. of		Standa	ard applicable wire for	tool
			applicable contact	applicable contact	STYLE No.	AWG No.	Sectional area (mm ²)	Outside diameter of covering
35	DF6A-TA1822HC	550-0222-0	DF6A-1822PC	546-0014-3	UL1015	18 to 22	0.865 to 0.342	ϕ 2.9 to ϕ 2.4
36	HT104/DF7-1618	550-0268-0	DF7-1618SC	680-0002-3	UL1007	16 to 18	1.317 to 0.865	ϕ 3.2 to ϕ 2.1
			DF7-1618PC	680-0006-4	UL1015			
			DF7-1618SCA	680-0138-5				
			DF7-1618PCA	680-0142-2				
37	HT104/DF7-2022	550-0269-3	DF7-2022SC	680-0004-9	UL1007	20 to 22	0.534 to 0.342	ϕ 2.6 to ϕ 1.6
38	DF11-TA22HC	550-0228-6	DF11-22SC	543-0602-2	UL1061	22	0.342 to 0.141	φ 1.3
			DF11-22SCA	543-0604-8				
39	DF11-TA2428HC	550-0197-4	DF11-2428SC	543-0501-5	UL1007	24 to 28	0.221 to 0.089	ϕ 1.5 to ϕ 0.9
			DF11-2428SCA	543-0551-3	UL1061			
			DF11A-2428SC	543-0635-1				
40	HT102/	550-0275-6	DF11-2428SC	543-0501-5		26 to 28	0.141 to 0.089	$\phi 0.8$ to $\phi 0.58$
	DF11-2628S-S		DF11-2428SCA	543-0551-3				
			DF11A-2428SC	543-0635-1				
41	DF11-TA30HC	550-0230-8	DF11-30SC	543-0606-3	UL1061	30	0.055	φ 0.8
			DF11-30SCA	543-0608-9				
42	DF11EP-TA2428HC	550-0227-3	DF11-EP2428PC	543-0616-7	UL1007	24 to 28	0.221 to 0.089	ϕ 1.5 to ϕ 1.2
43	HT104/	550-0285-0	DF22-1416PC	680-1080-2	UL1430	16	1.373	φ 2.6
	DF22-1416		DF22-1416SC	680-1001-6				
44	HT104/	550-0286-2	DF22A-1416PC	680-1081-5	UL1015	14 to 16	2.078 to 3.017	ϕ 3.7 to ϕ 3.2
	DF22A-1416		DF22A-1416SC	680-1003-1				
45	DF1B-TA2022SHC	550-0182-7	DF1B-2022SC	541-0224-4	UL1007	20 to 22	0.534 to 0.342	ϕ 1.8 to ϕ 1.6
			DF1B-2022SCA	541-0663-4				
46	DF1B-TA2022PHC	550-0183-0	DF1B-2022PC	541-0260-8	UL1007	20 to 22	0.534 to 0.342	ϕ 1.8 to ϕ 1.6
			DF1B-2022PCB	541-0691-0				
47	DF1B-TA2428SHC	550-0209-1	DF1B-2428SC	541-0679-4	UL1007	24 to 28	0.221 to 0.089	ϕ 1.5 to ϕ 1.2
			DF1B-2428SCA	541-0681-6				
48	DF1B-TA2428PHC	550-0224-5	DF1B-2428PC	541-0665-0	UL1007	24 to 28	0.221 to 0.089	ϕ 1.5 to ϕ 1.2
			DF1-PD2428SCB	541-0661-9				
49	DF1B-TA30SHC	550-0211-3	DF1B-30SC	541-0683-1	UL1007	30	0.055	φ 1.1
			DF1B-30SCA	541-0685-7				
50	DF1B-TA30PHC	550-0210-0	DF1B-30PC	541-0687-2	UL1007	30	0.055	φ 1.1
			DF1B-30PCB	541-0689-8				
51	HT102/DF1E-2022S	550-0277-1	DF1E-2022SC	541-1000-2	UL1007	20 to 22	0.534 to 0.342	ϕ 1.8 to ϕ 1.6
52	HT102/	550-0278-4	DF1B-2022PC	541-0260-8	UL1007	20 to 22	0.534 to 0.342	ϕ 1.8 to ϕ 1.6
	DF1BE-2022P		DF1B-2022PCB	541-0691-0				
			DF1E-2022PC	541-0938-0				
53	HT102/	550-0279-7	DF1B-2428PC	541-0665-0	UL1007	24 to 28	0.221 to 0.089	ϕ 1.5 to ϕ 1.2
	DF1BE-2428P		DF1-PD2428SCB	541-0661-9				
			DF1E-2428PC	541-0940-2				
54	HT102/	550-0280-6	DF1B-30PC	541-0687-2	UL1007	30	0.055	φ1.1
	DF1BE-30P		DF1B-30PCB	541-0689-8				
			DF1E-30PC	541-0942-8				
55	MDF6-TA1618HC	550-0203-5	MDF6-1618SC	547-0071-3	UL1007	16 to 18	1.317 to 0.865	ϕ 2.4 to ϕ 2.1
56	MDF6-TA2022HC	550-0204-8	MDF6-2022SC	547-0073-9	UL1007	20 to 22	0.534 to 0.342	ϕ 1.8 to ϕ 1.6
57	MDF12-TA1416HC	550-0236-4	MDF12-1416PC	547-0223-0	UL1007	14 to 16	2.078 to 1.317	ϕ 3.0 to ϕ 2.4
58	MDF12A-TA1416HC	· · · · · · · · · · · · · · · · · · ·	MDF12A-1416PC	547-0224-2	UL1015	14 to 16	2.078 to 1.317	ϕ 3.7 to ϕ 3.2
59	MDF12-TA1822HC	550-0238-0	MDF12-1822PC	547-0221-4	UL1007	18 to 22	0.865 to 0.342	ϕ 2.1 to ϕ 1.6
60	MDF12A-TA1822HC	550-0239-2	MDF12A-1822PC	547-0222-7	UL1015	18 to 22	0.865 to 0.342	$\phi 2.9 \text{ to } \phi 2.4$
61	HT104/GT3-2024	780-0012-5	GT3-2024SCF	753-0006-0	JISAVS		ctional area 0.5 to 0.3)	ϕ 2.0 to ϕ 1.8

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6. Operating procedure

6-1. Replacing the crimper

Use the manual crimping tool by replacing the crimpers in accordance with the cable size to be used. (The anvil is shared by both crimpers.)



- (1) Draw out the releasing pin located at the crimping tool head section.
- (2) Draw out the crimper in the direction of the arrow mark A.
- (3) Turn the crimper by 180° and attach it on the head so that the inscription mark showing the size of the cable used can be observed and insert the releasing pin.
- (Caution) The tools, HT104/DF7-1618 and HT104/DF7-2022, have to replace the crimpers themselves in accordance with the style size of the wire to be used. The style size of the applicable cable is marked on the side of the crimper.

6-2. Operating procedure



moves forward or backward, having spring. The position where the contact comes in close contact with the contact stopper and there is no load on it is the set position.





(4) Strip the covering of the cable by a given length. Then make the cable come in contact with the cable stopper while taking care not to allow the contact wire to become loose.

Some tools are not provided with the cable stopper. In this case, perform the positioning of the cable by eye measurement making the barrel of contact as a mark or perform the positioning making the crimper of the tool as a reference.

(For the dimensions of the finish of ends of cable, refer to Table of crimping quality standard 7-1.)

- (5) Grab the handle by hand until ratchet is released and open the handle.
- (6) Withdraw the crimped contact while holding the cable.

(7) Verify that the crimp is correct.(Refer to Table of crimping conditions and crimping quality standard 7-1.)

(Caution) When inserting the contact into the tool or taking it out from the tool, be careful that the contact is not caught with the cable stoper, anvil, etc., and is not deformed.

7. Crimping conditions and crimping quality standard

- 1) Check to be sure that the contact that has been crimped using the tool satisfies the standard described in Table 7-1 with respect to the crimp height and the tensile strength.
- 2) Check to be sure that the contact that has been crimped using the tool is within the standard of good product with respect to the shape.
- (Caution 1) When using a wire of which the diameter of covering is different from that of the standard applicable wire, bend the wire up and down, to the left and right at the crimping zone of covering after crimping. Then check to be sure that cauking strength is to such an extent that the covering position is not slipped and that the internal conductor is not damaged.
- (Caution 2) The figure below is an example of the shape of contact. Use the figure for reference of configuration.



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7-1. Table of crimping conditions and crimping quality standard

Tool product No.	RP13-7	C-11		<u> </u>			Stripping dimen	sion of wire	3.	3.0 to 3.7	
Applicable	Standar	d appli	cable wire		Crimp height	Crimp height	Tensile strength	Crir	nping qual	ity standard	
contact product No.	STYLE	AWG	Structure of	Outside diameter		(Covering)	(N) or more	Item	Dimension	Item	Dimension
contact product 110.	No.	No.	contact wire			(-0)		Covering position	(0.2 to 0.6)	Twist	(2° MAX)
		18	34/0.18		0.94 to 1.02	1.72 to 1.84	59	Position of top of	(0.2 to 0.5)	Rolling	(5° MAX)
RP13-PC-112		20	26/0.16	Less than ϕ 1.9	0.94 to 1.02	1.72 to 1.84	59	contact wire	(0.2 10 0.3)	Konnig	(5 MAA)
	Stranded	22	17/0.16		0.84 to 0.92	1.64 to 1.76	53	Bell mouth	(0.2 to 0.3)	Lance height	2.1 to 2.25
	wire							Bent UP	(3° MAX)	Crimping burr height	(0.1 MAX)
								Bent DOWN	(3° MAX)		

Tool product No.	RP13-7	C-12						Stripping dimen	sion of wire	3.	0 to 3.7
	Standar	d appli	cable wire		Crimp height	Crimp height	Tensile strength	Crir	nping qual	ity standard	
Applicable	STYLE	AWG	Structure of	Outside diameter			(N) or more	Item	Dimension	Item	Dimension
contact product No.	No.	No.	contact wire			(covering)	1 1 1	Covering position	(0.2 to 0.6)	Twist	(2° MAX)
		24	11/0.16		0.68 to 0.76	1.26 to 1.38	35	Position of top of	(0.2 to 0.5)	Rolling	(5° MAX)
RP13-PC-121		26	7/0.16	Less than ϕ 1.4	0.68 to 0.76	1.26 to 1.38	24	contact wire	(0.2 10 0.3)	Konnig	(J MAA)
RP13-PC-122 DF1-PD2428SCB	Stranded	28	7/0.127		0.58 to 0.66	1.16 to 1.28	16	Bell mouth	(0.2 to 0.3)	Lance height	2.1 to 2.25
DF1B-2428PC	wire							Bent UP	(3° MAX)	Crimping burr height	(0.1 MAX)
								Bent DOWN	(3° MAX)		· · · · · · · · · · · · · · · · · · ·

Tool product No.	RP13A	-TC-1	1					Stripping dimen	sion of wire	3.	.0 to 3.7
A . W 11.	Standar	d appli	cable wire		Crimp height	Crimp height	Tensile strength	Crin	nping quali	ity standard	
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)	1 0	(N) or more	Item	Dimension	Item	Dimension
	No. No. contact wire of covering	(*******************	(00,00mB)	(2.)	Covering position	(0.2 to 0.6)	Twist	(2° MAX)			
		18	34/0.18		0.94 to 1.02	1.72 to 1.84	59	Position of top of	(0.2 to 0.5)	Rolling	(5° MAX)
RP13A-SC-112		20	26/0.16	Less than ϕ 1.9	0.94 to 1.02	1.72 to 1.84	59	contact wire	(0.2 10 0.3)	Koning	(5 MAX)
	Stranded	22	17/0.16	· · ·	0.84 to 0.92	1.64 to 1.76	53	Bell mouth	(0.2 to 0.3)	Lance height	1.6 to 1.7
	wire							Bent UP	(3° MAX)	Crimping burr height	(0.1 MAX)
								Bent DOWN	(3° MAX)		

Tool product No.	RP13A	-TC-1	2					Stripping dimen	sion of wire	3.	3.0 to 3.7	
A	Standar	d appli	cable wire		Crimp height	Crimp height	Tensile strength	Crir	nping qual	ity standard		
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)	(Covering)	(N) or more	Item	Dimension	Item	Dimension	
contact product No.	No.	No.	contact wire	of covering	()	(· /	Covering position	(0.2 to 0.6)	Twist	(2° MAX)	
		24	11/0.16		0.68 to 0.76	1.26 to 1.38	35	Position of top of	(0.2 to 0.5)	Rolling	(5° MAX)	
RP13A-SC-121		26	7/0.16	Less than ϕ 1.4	0.68 to 0.76	1.26 to 1.38	24	contact wire	(0.2 10 0.5)	Konnig		
RP13A-SC-122	Stranded	28	7/0.127		0.58 to 0.66	1.16 to 1.28	16	Bell mouth	(0.2 to 0.3)	Lance height	1.6 to 1.7	
	wire							Bent UP	(3° MAX)	Crimping burr height	(0.1 MAX)	
								Bent DOWN	(3° MAX)			

Tool product No.	RP17-7	FC-11						Stripping dimen	sion of wire	3.	.0 to 3.5
A	Standar	d appli	cable wire		Crimp height	Crimp height	Tensile strength	Crin	nping qual	ity standard	l
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire) (Covering		(N) or more	Item	Dimension	Item	Dimension
contact product 140.	No.		contact wire	of covering	(conner me)	(corering)		Covering position	(0.2 to 0.6)	Twist	(3° MAX)
		18	34/0.18		0.94 to 1.02	1.64 to 1.76	59	Position of top of	(0.2 to 0.4)	Rolling	(5° MAX)
RP17-PC-112	UL1007	20	26/0.16	Less than ϕ 1.7	0.94 to 1.02	1.64 to 1.76	59	contact wire	(0.2 10 0.4)	Roning	(J WIAX)
RP17-SC-112	Stranded	22	17/0.16		0.84 to 0.92	1.54 to 1.66	53	Bell mouth	(0.2 to 0.5)	Lance height	1.55 to 1.65
	wire							Bent UP	(5° MAX)	Crimping burr height	(0.3 MAX)
							н. Н	Bent DOWN	(5° MAX)		

Tool product No.	RP17-7	C-12						Stripping dimen	sion of wire	3	.0 to 3.5
Amiliaahla	Standar	d appli	cable wire		Crimp height	Crimp height	Tensile strength	Crin	nping qual	ity standard	1
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)	(Covering)	(N) or more	Item	Dimension	Item	Dimension
	No.	No.	contact wire	of covering	((Covering position	(0.2 to 0.6)	Twist	(3° MAX)
		24	11/0.16		0.66 to 0.74	1.44 to 1.56	35	Position of top of	(0.2 to 0.4)	Rolling	(5° MAX)
RP17-PC-122	UL1007	26	7/0.16	Less than ϕ 1.2	0.66 to 0.74	1.44 to 1.56	24	contact wire	(0.2 10 0.4)	Koming	
RP17-SC-122	UL100/	28	7/0.127		0.56 to 0.64	1.34 to 1.46	16	Bell mouth	(0.2 to 0.5)	Lance height	1.55 to 1.65
	wire	30	7/0.1	-	0.56 to 0.64	1.34 to 1.46	9.8	Bent UP	(5° MAX)	Crimping burr height	(0.3 MAX)
								Bent DOWN	(5° MAX)		

Tool product No.	RP19-7	[C-11						Stripping dimen	sion of wire	2.0 to 2.5	
A	Standar	d appli	cable wire		Crimp height	Crimp height	Tensile strength	Crir	nping qual	ity standard	
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter			(N) or more	Item	Dimension	Item	Dimension
contact product No.	No.	No.	contact wire		(conner whe)	(covering)		Covering position	(0.2 to 0.5)	Twist	(3° MAX)
PP10.PC-112		18	34/0.18		0.88 to 0.96	1.64 to 1.76	59	Position of top of	(0.2 to 0.4)	Rolling	(5° MAX)
RP19-PC-112 RP19-SC-112		20	26/0.16	Less than ϕ 1.79	0.88 to 0.96	1.64 to 1.76	59	contact wire	(0.2 10 0.4)	Koming	
	Stranded	22	17/0.16		0.75 to 0.83	1.54 to 1.66	53	Bell mouth	(0.2 to 0.5)	Lance height	1 to 1.1
	wire							Bent UP	(5° MAX)	Crimping burr height	(0.3 MAX)
								Bent DOWN	(5° MAX)		

Tool product No.	RP19-7	ГС-12						Stripping dimen	sion of wire	2.	.0 to 2.5
	Standar	d appli	cable wire		Crimp height	Crimp height	Tensile strength	Crir	nping qual	ity standard	
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter		(Covering)	(N) or more	Item	Dimension	Item	Dimension
	No.	No. No. contact wire o	of covering				Covering position	(0.2 to 0.5)	Twist	(3° MAX)	
		24	11/0.16		0.63 to 0.71	1.04 to 1.16	35	Position of top of	(0.2 to 0.4)	Rolling	(5° MAX)
RP19-PC-122		26	7/0.16	Less than ϕ 1.15	0.63 to 0.71	1.04 to 1.16	24	contact wire	(0.2 10 0.4)	Koming	(5 11111)
RP19-SC-122	Stranded	28	7/0.127		0.53 to 0.61	0.94 to 1.06	16	Bell mouth	(0.2 to 0.5)	Lance height	1 to 1.1
	wire	30	7/0.1		0.53 to 0.61	0.94 to 1.06	9.8	D (III)	(59) ())	Crimping	(0.2.) (4.)
								Bent UP	(5° MAX)	burr height	(0.3 MAX)
								Bent DOWN	(5° MAX)		

Tool product No.	HR22-7	ГА242	8HC					Stripping dimen	sion of wire	2.	0 to 2.5
· · · · · · · · · · · · · · · · · · ·	Standar	d appli	cable wire		Crime haisht	Crimp height	Tensile strength	Crin	nping qual	ity standard	l
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter	Crimp height (contact wire)	(Covering)	(N) or more	Item	Dimension	Item	Dimension
contact product ivo.	No.	No.	contact wire	of covering	(,	(Covering position	0.2 to 0.7	Twist	3° MAX
		24	11/0.16		0.63 to 0.71	1.04 to 1.16	35	Position of top of	0.1 to 0.8	Rolling	5° MAX
HR22-PC-122		26	7/0.16	Less than ϕ 1.15	0.63 to 0.71	1.04 to 1.16	24	contact wire	0.1 10 0.3	Koming	JIMAA
HR22-SC-122	Stranded	28	7/0.127		0.53 to 0.61	0.94 to 1.06	16	Bell mouth	0.2 to 0.5	Lance height	1 to 1.1
	wire							Bent UP	2° MAX	Crimping burr height	0.1 MAX
		[Bent DOWN	2° MAX		

Tool product No.	HT104	/HR2	4-1	· · · · · · · · · · · · · · · · · · ·				Stripping dimen	sion of wire	3	3.9 to 4.3
A	Standar	d appli	cable wire		Crimp height	Crimp height	Tensile strength	Crin	nping qual	ity standard	1
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)	(Covering)	(N) or more	Item	Dimension	Item	Dimension
	No.	No.	contact wire	of covering	Ì`´´			Covering position	0.2 to 1.0	Twist	3° MAX
		18	42/0.16	φ 2.1	1.14 to 1.20	2.20 to 2.35	59	Position of top of	0.7 to 0.0	Dolling	5° MAX
HR24-PC-211	UL1007	20	27/0.16	φ 1.8	0.98 to 1.04	2.10 to 2.25	59	contact wire	0.3 to 0.9 Rolling	Konnig	5 MAA
	Stranded	22	17/0.16	φ 1.6	0.88 to 0.94	2.05 to 2.20	53	Bell mouth	0.2 to 0.5	Lance height	1.65 to 1.75
	wire	24	11/0.16	φ 1.5	0.86 to 0.92	2.05 to 2.15	35	D (UD	29 MAX	Crimping	0.1 MAX
								Bent UP	3° MAX	burr height	0.1 MAX
								Bent DOWN	3° MAX		

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Tool product No.	HR25-'	TA30	32HC					Stripping dimen	(2	.0 to 2.5)	
Applicable	Standar	dapplic	able wire		Crimp height	Crimp height	Tensile strength	Crin	nping qual	ity standard	1
contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)	(Covering)	(N) or more	Item	Dimension	Item	Dimension
contact product 100.	No.	No. No. contact wire of covering	Covering position	(0.2 to 0.5)	Twist	(3° MAX)					
		30	7/0.1	ϕ 0.7 MAX	0.44 to 0.48	0.94 to 1.04	10	Position of top of	(0.2 to 0.4)	Rolling	(3° MAX)
HR25-PC-111								contact wire	(0.2 10 0.4)	Ronnig	(J MAA)
HR25-SC-111								Bell mouth	(0.2 to 0.5)	Lance height	1 to 1.1
I.								Bent UP	(3° MAX)	Crimping burr height	(0.3 MAX)
								Bent DOWN	(3° MAX)		

Tool product No.	HT102	/HR3	0-1					Stripping dimen	ision of wire	2	.0 to 2.5
Arrahashla	Standar	d appli	cable wire		Crimp height	Crimp baight	Tensile strength	Crir	nping qual	ity standard	
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)	(Covering)	(N) or more	Item	Dimension	Item	Dimension
contact product 110.	No.	No.	contact wire		ľ í			Covering position	0.1 to 0.7	Twist	3° MAX
		26	7/0.16		0.52 to 0.58	0.85 to 1.00	24	Position of top of	0.1 to 0.5	Rolling	5° MAX
HR30-PC-111 UL1571 HR30-SC-111 Stranded wire	UL1571	28	7/0.127	Less than ϕ 1.0	0.48 to 0.54	0.85 to 1.00	19	contact wire	0.1 10 0.5	Konnig	JMAA
	30	7/0.1		0.46 to 0.52	0.80 to 0.95	10	Bell mouth	0.1 to 0.4	Lance height	1 to 1.1	
					Bent UP	3° MAX	Crimping burr height	0.1MAX			
								Bent DOWN	3° MAX		

Tool product No.	RP34-1	l/CR-]	HT					Stripping dimens	sion of wire	2	.0 to 2.5
A	Standar	dapplic	cable wire		Crimp height	Crimp height	Tensile strength	Crin	nping qual	ity standard	1
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter	1 0		(N) or more	Item	Dimension	Item	Dimension
contact product 100.	No.	No.	contact wire	of covering				Covering position	0.1 to 0.6	Twist	4° MAX
		18	34/0.18		0.90 to 0.96	2.00 to 2.10	59	Position of top of	0.1 to 0.6	Rolling	3° MAX
RP34-SC-112 Stranded	Stranded 20 27/0.16	φ 1.8MAX	0.72 to 0.78	1.90 to 2.00	59	contact wire	0.1 10 0.0	Roming	JIMAA		
	wire	22	17/0.16		0.72 to 0.78	1.90 to 2.00	53	Bell mouth	0.2 to 0.6	Lance height	2.4 to 2.5
								Bent UP	4° MAX	Crimping burr height	0.1 MAX
								Bent DOWN	4° MAX		

Tool product No.	HT102	/ RP3 4	L-SC1-21	2				Stripping dimen	2.0 to 2.5		
A	Standar	d appli	cable wire		Crimp height	Crimp height	Tensile strength	Crit	nping quali	ity standard	
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)	(Covering)	(N) or more	Item	Dimension	Item	Dimension
contact product 100.	No.	No.	contact wire	of covering		`		Covering position	0.2 to 0.8	Twist	5° MAX
		18	34/0.18		1.12 to 1.18	2.2 MAX	59	Position of top of	0.2 to 0.8	Rolling	5° MAX
RP34L-SC1-212	Stranded	20	21/0.18	φ 1.8MAX	0.94 to 0.98	2.2 MAX	59	contact wire	0.2 10 0.8	Koning	JMAA
	wire	22	17/0.16		0.94 to 0.98	2.2 MAX	53	Bell mouth	0.2 to 0.5	Lance height	0.7 to 0.8
wire								Bent UP	3° MAX	Crimping burr height	0.1 MAX
	}							Bent DOWN	3° MAX		

Tool product No.	DN50-7	ГА262	8HC					Stripping dimen	sion of wire	1.	.5 to 2.5
Applicable	Standar	d appli	cable wire	-	Crimp height	Crimp height	Tensile strength	Crir	nping qual	ity standard	
contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)	(Covering)	(N) or more	Item	Dimension	Item	Dimension
condict product 1101	No.	No.	contact wire	of covering	ľ í			Covering position	0.2 to 0.8	Twist	3° MAX
		26	7/0.16	φ 1.3	0.58 to 0.64	1.07 to 1.19	23	Position of top of	0.2 to 0.5	Rolling	5° MAX
DN50-2628PC1	UL1007	28	7/0.127	φ 1.2	0.58 to 0.64	1.07 to 1.19	13	contact wire	0.2 10 0.3	Koning	5 MAX
	Stranded							Bell mouth	0.1 to 0.3	Lance height	0.35 to 0.45
	wire							Bent UP	3° MAX	Crimping burr height	0.2 MAX
								Bent DOWN	3° MAX		

Tool product No.	HT104	/PX50)-3					Stripping dimen	sion of wire		3.1 to 4.1	
4	Standar	d appli	icable wire		Crimp height	Crimp height	Tensile strength	Crin	nping qual	ity standa	rd	
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)	(Covering)	(N) or more	Item	Dimension	Item	Dimension	
	No.	No.	contact wire	of covering				Covering position	0.1 to 1.1	Twist	5° MAX	
PX50-SC-131		16	26/0.26	φ 2.4	1.28 to 1.34	2.40 to 2.55	147	Position of top of	0.1 to 1.0	Rolling	5° MAX	
	UL1007	18	34/0.18	φ 2.1	1.12 to 1.18	2.20 to 2.35	98	contact wire	0.1 to 1.0 Ro	Koning	JIMAA	
	UL1007 Stranded							Bell mouth	0.2 to 0.5			
	wire							Bent UP	3° MAX			
								Bent DOWN	3° MAX			

Tool product No.	HIF3-7	CA202	2HC					Stripping dimen	sion of wire	3.	3 to 3.7
	Standar	d appli	cable wire		Crimp height	Crimp height	Tensile strength	Crin	nping quali	ity standard	
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)	(Covering)	(N) or more	Item	Dimension	Item	Dimension
	No.	No.	contact wire	of covering				Covering position	0.1 to 0.7	Twist	4° MAX
HIF3-2022SC UL1007 Stranded		20	21/0.18	φ 1.8	0.85 to 0.95	1.82 to 1.94	88	Position of top of	0.1 to 0.5	Rolling	8° MAX
	UL1007	22	17/0.16	φ 1.6	0.85 to 0.92	1.82 to 1.94	53	contact wire	0.1 to 0.5 Kolling	0 MIAX	
							Bell mouth	0.2 to 0.5	Lance height	2.4 to 2.6	
	wire							Bent UP	3° MAX		
								Bent DOWN	3° MAX		

Tool product No.	HIF3-T	A242	8HC					Stripping dimen	sion of wire	3.7 to 4.1	
Applicable	Standar	d appli	cable wire		Crimp height	Crimp height	Tensile strength	Crin	nping qual	ity standard	
contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)	(Covering)	(N) or more	Item	Dimension	Item	Dimension
contact product No.	No.	No.	contact wire	of covering	()	((Covering position	0.1 to 0.7	Twist	4° MAX
		24	11/0.16	φ 1.5	0.73 to 0.87	1.09 to 1.21	35	Position of top of	0.1 to 0.5	Rolling	8° MAX
HIF3-2428SC	UL1007	26	7/0.16	φ 1.3	0.71 to 0.81	1.09 to 1.21	24	contact wire	0.1 (0 0.5	Ronnig	0 WLAA
HIF3-2428SCA	Stranded	28	7/0.127	φ 1.2	0.68 to 0.76	1.09 to 1.21	16	Bell mouth	0.2 to 0.5	Lance height	2.4 to 2.6
	wire							Bent UP	3° MAX		
			[Bent DOWN	3° MAX		

Tool product No.	HIF3-T	B222	6HC					11-8			1 to 3.8
Applicable	Standar	d appli	cable wire		Crimp height	Crimp height	Tensile strength	Crir	nping quali	ity standard	
contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)	(Covering)	(N) or more	Item	Dimension	Item	Dimension
contact product rio.	No. No. contact wire of covering				· · · · · · · · · · · · · · · · · · ·	Covering position	0.1 to 0.8	Twist	3° MAX		
		22	17/0.16	φ 1.6	0.81 to 0.89	1.43 to 1.63	53	Position of top of	0.1 to 0.8	Rolling	10° MAX
HIF3-2226SCC	UL1007	24	11/0.16	φ 1.5	0.76 to 0.84	1.43 to 1.63	35	contact wire	0.1 10 0.8	Koming	10 MAA
A1-2226SCC	Stranded	26	7/0.16	φ 1.3	0.76 to 0.84	1.43 to 1.63	24	Bell mouth	0.1 to 0.4	Lance height	2.4 to 2.6
	wire							Bent UP	3° MAX	Crimping burr height	0.3 MAX
								Bent DOWN	3° MAX		

Tool product No.	HIF3-	ГВ263	0HC					Stripping dimen	sion of wire	3.	1 to 3.8
Applicable	Standar	d appl	icable wire		Crimp height	Crimp height	Tensile strength	Crin	nping quali	ty standard	
contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)	(Covering)	(N) or more	Item	Dimension	Item	Dimension
contact product and	No.	No.	contact wire	of covering				Covering position	0.1 to 0.8	Twist	3° MAX
		26	7/0.16	φ 1.3	0.71 to 0.79	1.35 to 1.55	24	Position of top of	0.1 to 0.8	Rolling	10° MAX
A1-2630SCC Strat	UL1007	28	7/0.127	φ 1.2	0.65 to 0.71	1.25 to 1.45	16	contact wire	0.1 10 0.8	Koning	10 MAA
	Stranded	randed 30	7/0.1	φ 1.1	0.65 to 0.71	1.25 to 1.45	10	Bell mouth	0.1 to 0.4	Lance height	2.4 to 2.6
	wire							Bent UP	3° MAX	Crimping burr height	0.3 MAX
								Bent DOWN	3° MAX		

Tool product No.	A3B-T	A263	OHC					Stripping dimen	sion of wire	1.7 to 2.1	
A	Standar	d appl	icable wire		Crimp height	Crime hoight	Tensile strength	Crir	nping quali	ity standard	
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)	(Covering)	(N) or more	Item	Dimension	Item	Dimension
	No.	No.	contact wire	of covering	()	(8)	(-)	Covering position	0.1 to 0.6	Twist	5° MAX
A3B-2630SCC		26	7/0.16	Less than ϕ 1.2	0.54 to 0.60	1.30 to 1.40	20	Position of top of	0.1 to 0.7	Rolling	10° MAX
	UL1007	28	7/0.127	φ 1.2	0.50 to 0.56	1.25 to 1.35	9.8	contact wire	0.1 10 0.7	Koning	10 MAA
	Stranded	30	7/0.1	φ 1.1	0.50 to 0.56	1.25 to 1.35	5.9	Bell mouth	0.2 to 0.5	Lance height	(1.17)
	wire							Bent UP	3° MAX		
								Bent DOWN	3° MAX		

Tool product No.	A3B-T	A32H	C					Stripping dimen	sion of wire	1.	7 to 2.1
A 1	Standar	d appl	icable wire		Crimp height	Cuinen haiaht	T	Crin	nping quali	ity standard	
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)	(Covering)	Tensile strength (N) or more	Item	Dimension	Item	Dimension
	No.	No.	contact wire	of covering	(contact whey	(covering)		Covering position	0.1 to 0.6	Twist	5° MAX
		32	7/0.08	φ 0.54	0.40 to 0.46	0.90 to 0.96	2.9	Position of top of	0.1 to 0.7	Rolling	10° MAX
A3B-32SCC	UL1571	rosition of top of 0.1 to 0.7 R	Kolling 10	10 WIAA							
	Stranded							Bell mouth	0.2 to 0.5	Lance height	(1.17)
	wire							Bent UP	3° MAX		
								Bent DOWN	3° MAX		

Tool product No.	EC1-T	A2226	SHC					Stripping dimen	ision of wire		3.0 to 3.5
A P 11.	Standa	rd appl	icable wire		Crime hoight	Crime haight	Tanaila atronath	Crir	nping qual	ity standa	rd
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter	Crimp height (contact wire)	Crimp height (Covering)	Tensile strength (N) or more	Item	Dimension	Item	Dimension
contact product No.	No.	No.	contact wire	of covering	(contact who)	(covering)		Covering position	(0.2 to 0.8)	Twist	(4° MAX)
EC1-2226SC UI		22	17/0.16	φ 1.6	0.88 to 1.05	(1.90)	53	Position of top of	(0.1 to 0.8)	Rolling	(5° MAX)
	UL1007	24	11/0.16	φ 1.5	0.87 to 1.00	(1.90)	35	contact wire	(0.1 10 0.8)	Koning	(J MAA)
	Stranded		7/0.16	φ 1.3	0.85 to 0.95	(1.90)	24	Bell mouth	(0.2 to 0.5)		
	wire							Bent UP	(3° MAX)		
								Bent DOWN	(3° MAX)		

Tool product No.	PCN10)-TA2	226HC					Stripping dimen	sion of wire	3.	0 to 3.6
A	Standar	d appl	icable wire		Crimp height	Crime hoight	Tensile strength	Crir	nping quali	ity standard	
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)	(Covering)	(N) or more	Item	Dimension	Item	Dimension
	No.	No.	contact wire	of covering				Covering position	0.1 to 0.7	Twist	3° MAX
PCN10-2226SC UL10		22	17/0.16	φ 1.6	0.76 to 0.84	1.76 to 1.88	53	Position of top of	0.1 to 1.0	Rolling	5° MAX
	UL1007	24	11/0.16	φ 1.5	0.66 to 0.76	1.48 to 1.60	35	contact wire	0.1 10 1.0	Roning	JIMIM
	Stranded	26	7/0.16	φ 1.3	0.66 to 0.74	1.48 to 1.60	24	Bell mouth	0.1 to 0.6	Lance height	1.85 to 2.1
	wire							Bent UP	3° MAX	Crimping burr height	0.3 MAX
								Bent DOWN	3° MAX		

Tool product No.	PCN1	0-TA2	630HC					Stripping dimen	sion of wire	3.	0 to 3.6
Applicable	Standa	rd app	licable wire		Crimp height	Crimp height	Tensile strength	Crin	nping qual	ity standard	
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)	(Covering)	(N) or more	Item	Dimension	Item	Dimension
contract product 1100	No.	No.	contact wire	of covering				Covering position	0.1 to 0.7	Twist	3° MAX
		26	7/0.16	φ 1.3	0.68 to 0.76	1.39 to 1.51	24	Position of top of	0.1 to 1.0	Rolling	5° MAX
	UL1007	28	7/0.127	φ 1.2	0.68 to 0.76	1.39 to 1.51	16	contact wire	0.1 10 1.0	Koning	JMAA
	Stranded	30	7/0.1	φ 1.1	0.65 to 0.73	1.29 to 1.41	9.8	Bell mouth	0.1 to 0.6	Lance height	1.85 to 2.1
	wire							Bent UP	3° MAX	Crimping burr height	0.3 MAX
				Bent DOWN	3° MAX						

Tool product No.	DF1-T	2428	S					Stripping dimen	sion of wire	1.	9 to 2.4
A P L I.	Standa	rd app	licable wire		Crimp height	Crimp height	Tensile strength	Crin	nping quali	ity standard	ľ
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)	1	(N) or more	Item	Dimension	Item	Dimension
conmer produce rior	No.	No.	contact wire	of covering				Covering position	0.1 to 0.5	Twist	3° MAX
		24	11/0.16	φ 1.5	0.75 to 0.83	1.47 to 1.59	35	Position of top of	0.1 to 0.6	Rolling	5° MAX
DF1-2428SC		φ 1.3	0.75 to 0.83	1.47 to 1.59	24	contact wire	0.1 10 0.0	Rolling	JMAA		
	Stranded	28	7/0.127	φ 1.2	0.66 to 0.74	1.37 to 1.49	16	Bell mouth	0.1 to 0.3	Lance height	0.6 to 0.75
	wire						-	Bent UP	3° MAX	Crimping burr height	0.1 MAX
								Bent DOWN	3° MAX		

Tool product No.	DF2-T	A242	8HC					Stripping dimen	sion of wire	1.	6 to 2.1
A 19 . 1 1.	Standa	rd app	licable wire	and the second	Crimp height	Crimp height	Tensile strength	Crin	nping quali	ity standard	L .
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)	(Covering)	(N) or more	Item	Dimension	Item	Dimensior
F	No.	No.	contact wire	of covering				Covering position	0.1 to 0.5	Twist	3° MAX
		24	11/0.16	φ 1.5	0.60 to 0.68	1.59 to 1.71	35	Position of top of	0.1 to 0.4	Rolling	5° MAX
DF2-2428PC	UL1007 (UL106)	26	7/0.16	φ 1.3	0.58 to 0.66	1.59 to 1.71	24	contact wire	0.1 10 0.4	Rolling	5 MAX
	Stranded	28	7/0.127	φ 1.2	0.56 to 0.64	1.49 to 1.61	16	Bell mouth	0.1 to 0.3	Lance height	0.4 to 0.45
	wire							Bent UP	3° MAX	Crimping burr height	0.1 MAX
								Bent DOWN	3° MAX		

Tool product No.	DF3-T	A242	8HC					Stripping dimen	sion of wire	1.8 to 2.3	
A	Standa	rd app	licable wire		Crimp hoight	Crime baight	Tonsile strength	Crin	nping quali	ity standard	l
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter	Crimp height (contact wire)		Tensile strength (N) or more	Item	Dimension	Item	Dimension
conder produce 1101	No.	No.	contact wire	of covering				Covering position	0.1 to 0.7	Twist	3° MAX
DF3-2428SC		24	11/0.16	φ 1.5	0.68 to 0.76	1.47 to 1.59	35	Position of top of	0.1 to 0.5	Rolling	5° MAX
	UL1007	26	7/0.16	φ 1.3	0.58 to 0.66	1.37 to 1.49	24	contact wire	0.1 10 0.5	Roning	JMAA
DF3-2428SCC	Stranded	28	7/0.127	φ 1.2	0.58 to 0.66	1.37 to 1.49	16	Bell mouth	0.1 to 0.3	Lance height	0.45 to 0.5
	wire							Bent UP	3° MAX	Crimping burr height	0.1 MAX
								Bent DOWN	3° MAX		

Tool product No.	DF3-T	A22H	IC –					Stripping dimen	ision of wire	1.	8 to 2.3
A	Standa	rd app	licable wire		Crimp height	Crimp height	Tensile strength	Crir	nping quali	ity standard	1
Applicable contact product No.	STYLE			Outside diameter	(contact wire)	(Covering)	(N) or more	Item	Dimension	Item	Dimension
	No.	No.	contact wire	of covering				Covering position	0.1 to 0.7	Twist	3° MAX
DE2 225C	1	22	17/0.16	φ 1.3	0.60 to 0.68	1.65 to 1.82	53	Position of top of	0.1 to 0.5	Rolling	5° MAX
DF3-22SC	UL1061							contact wire	0.1 to 0.5		JIMITA
	Stranded							Bell mouth	0.1 to 0.3	Lance height	0.45 to 0.5
	wire							Bent UP	3° MAX	Crimping burr height	0.1 MAX
								Bent DOWN	3° MAX		

Tool product No.	DF3E1	P-TA2	428HC					Stripping dimen	sion of wire	1.	9 to 2.5
Applicable	Standa	rd appl	licable wire		Crimp height	Crimp height	Tensile strength	Crir	nping quali	ity standard	
contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)	(Covering)	(N) or more	Item	Dimension	Item	Dimension
contact product 110.		No.	contact wire	of covering		(Covering position	0.2 to 0.8	Twist	3° MAX
		24	11/0.16	φ 1.5	0.74 to 0.80	1.65 to 1.75	35	Position of top of	0.2 to 0.5	Rolling	5° MAX
DF3-EP2428PC		26	7/0.16	φ 1.3	0.68 to 0.76	1.50 to 1.60	24	contact wire	0.2 10 0.5	Koming	JIMAA
DF3-EP2428PCA	Stranded	anded 28	7/0.127	φ 1.2	0.66 to 0.74	1.50 to 1.60	16	Bell mouth	0.1 to 0.3	Lance height	0.4 to 0.5
	wire							Bent UP	3° MAX	Crimping burr height	0.1 MAX
								Bent DOWN	3° MAX		

Tool product No.	DF4-1	A242	8HC					Stripping dimen	sion of wire	1.	3 to 1.9
A	Standa	rd app	licable wire		Crimp height	Crimp height	Tensile strength	Crir	nping quali	ity standard	
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)	(Covering)	(N) or more	Item	Dimension	Item	Dimension
comact product No.	No.	No.	contact wire	of covering	(connect the)	(covering)		Covering position	0.1 to 0.7	Twist	2° MAX
DF4-2428PC _{UL}		24	11/0.16	φ 1.5	0.56 to 0.64	1.47 to 1.59	35	Position of top of	0.1 to 0.3	Rolling	5° MAX
	UL1007	26	7/0.16	φ 1.3	0.54 to 0.62	1.47 to 1.59	24	contact wire	0.1 10 0.5	Koning	JIMAA
	Stranded	28	7/0.127	φ 1.2	0.50 to 0.58	1.44 to 1.56	16	Bell mouth	0.1 to 0.3	Lance height	1.5 to 1.7
	wire		-					Bent UP	3° MAX	Crimping burr height	0.1 MAX
				2				Bent DOWN	3° MAX		

Tool product No.	DF5-1	822/C	R-HT					Stripping dimen	sion of wire	3.	0 to 4.0
	Standa	rd app	licable wire		Crimp height	Crimp height	Tensile strength	Crin	nping quali	ity standard	l
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)	(Covering)	(N) or more	Item	Dimension	Item	Dimension
contact product 1101	No.	No.	contact wire	of covering				Covering position	0.2 to 1.1	Twist	3° MAX
DF5-1822SC		18	34/0.18	φ 2.1	0.98 to 1.04	2.05 to 2.25	98	Position of top of	0.2 to 1.0	Rolling	5° MAX
	UL1007	20	21/0.18	φ 1.8	0.86 to 0.92	1.80 to 2.00	88	contact wire	0.2 10 1.0	Koning	JWIAA
	S-1822SC UL1007 Stranded	22	17/0.16	φ 1.6	0.80 to 0.86	1.70 to 1.90	53	Bell mouth	0.2 to 0.5	Lance height	2.6 to 2.7
	wire							Bent UP	3° MAX	Crimping burr height	0.1 MAX
								Bent DOWN	3° MAX		

Tool product No.	DF5A	-1822/	CR-HT					Stripping dimen	sion of wire	3.	0 to 4.0
A . P. 11	Standa	rd app	licable wire		Crime hoight	Cuinen haiaht	Tanaila atronath	Crin	nping quali	ity standard	l
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter	Crimp height (contact wire)	Crimp height (Covering)	Tensile strength (N) or more	Item	Dimension	Item	Dimension
	No.	No.	contact wire	of covering			·	Covering position	0.2 to 1.1	Twist	3° MAX
DF5A-1822SC		18	34/0.18	φ 2.9	0.98 to 1.04	2.65 to 2.85	98	Position of top of	0.2 to 1.0	Rolling	5° MAX
	UL1015	20	21/0.18	φ 2.6	0.86 to 0.92	2.50 to 2.70	88	contact wire	0.2 10 1.0	Konnig	JIMAA
	Stranded	22	17/0.16	φ 2.4	0.80 to 0.86	2.35 to 2.55	53	Bell mouth	0.2 to 0.5	Lance height	2.6 to 2.7
	wire							Bent UP	3° MAX	Crimping burr height	0.1 MAX
	[·		[Bent DOWN	3° MAX		

Tool product No.	DF6-T	`A182	2HC					Stripping dimen	sion of wire	2.	1 to 2.6
Applicable	Standa	rd app	licable wire		Crimp height	Crimp height	Tensile strength	Crin	nping quali	ty standard	
contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)	(Covering)	(N) or more	Item	Dimension	Item	Dimension
						Covering position	0.1 to 0.9	Twist	3° MAX		
DF6-1822PC		18	34/0.18	φ 2.1	0.94 to 1.04	2.14 to 2.26	98	Position of top of	0.1 to 0.5	Rolling	5° MAX
	UL1007	20	21/0.18	φ 1.8	0.88 to 0.98	2.04 to 2.16	88	contact wire	0.1 10 0.5	Roning	5 141111
		22	17/0.16	φ 1.6	0.86 to 0.96	2.04 to 2.16	53	Bell mouth	0.2 to 0.4	Lance height	0.4 to 0.6
	wire							Bent UP	3° MAX	Crimping burr height	0.2 MAX
							-	Bent DOWN	3° MAX		

Tool product No.	DF6A-	TA18	322HC					Stripping dimen	ision of wire	2.	3 to 2.8
A P I.I.	Standa	rd app	licable wire		Crimp height	Crimp height	Tensile strength	Criı	nping quali	ity standard	
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)	(Covering)	(N) or more	Item	Dimension	Item	Dimension
contact product 110.	No.	No.	contact wire	of covering	l` í		. ,	Covering position	0.1 to 0.9	Twist	3° MAX
DF6A-1822PC		18	34/0.18	φ 2.9	0.94 to 1.02	2.80 to 3.00	98	Position of top of	0.1 to 0.5	Rolling	5° MAX
	UL1015	20	21/0.18	φ 2.6	0.92 to 1.00	2.70 to 3.00	88	contact wire	0.1 10 0.5	Koning	JMAA
	Stranded	22	17/0.16	φ 2.4	0.82 to 0.90	2.70 to 2.90	53	Bell mouth	0.2 to 0.4	Lance height	0.4 to 0.6
	wire							Bent UP	3° MAX	Crimping burr height	0.2 MAX
								Bent DOWN	3° MAX		

Tool product No.	HT104	4/DF7	-1618					Stripping dimen	sion of wire	3.	0 to 3.8
A P 1.7.	Standa	rd app	licable wire		Crimp height	Crimp height	Tensile strength	Crin	nping quali	ty standard	
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)		(N) or more	Item	Dimension	Item	Dimension
-	No.	No.	contact wire	of covering	(Covering position	0.2 to 1.3	Twist	5° MAX
	UL1007	16	26/0.26	φ 2.4	1.26 to 1.34	2.95 to 3.10	147	Position of top of	0.2 to 1.1	Rolling	5° MAX
DF7-1618SC	Stranded wire	18	34/0.18	φ 2.1	1.10 to 1.18	2.85 to 3.00	98	contact wire	0.2 10 1.1	Koning	JMAA
DF7-1618SCA	UL1015		26/0.26	φ 3.2	1.26 to 1.34	3.10 to 3.25	147	Bell mouth	0.2 to 0.6		
DF7-1618PC DF7-1618PCA	Stranded wire	18	34/0.18	φ 2.9	1.10 to 1.18	3.00 to 3.15	98	Bent UP	5° MAX	Crimping burr height	0.1 MAX
								Bent DOWN	5° MAX	Crimp width	3.4

Tool product No.	HT104	4/DF7	-2022					Stripping dimen	sion of wire	3.0 to 3.8	
	Standa	rd app	licable wire		Crimp height	Crimp height	Tongilo strongth	Crin	nping quali	ity standard	
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)	1 0	Tensile strength (N) or more	Item	Dimension	Item	Dimension
contact product No.	No.	No.	contact wire	of covering	(************	(()	Covering position	0.2 to 1.3	Twist	5° MAX
	UL1007	20	21/0.18	φ 1.8	0.94 to 1.02	2.35 to 2.50	88	Position of top of	0.2 to 1.1	Rolling	5° MAX
DF7-2022SC	Stranded wire	22	17/0.16	φ 1.6	0.86 to 0.94	2.30 to 2.40	53	contact wire	0.2 10 1.1	Koning	JWIAA
DF7-2022SCA	UL1015	20	21/0.18	φ 2.6	0.94 to 1.02	2.45 to 2.60	88	Bell mouth	0.2 to 0.6		
DF7-2022PC DF7-2022PCA	Stranded	22	17/0.16	φ 2.4	0.86 to 0.94	2.35 to 2.50	53	Bent UP	5° MAX	Crimping burr height	0.1 MAX
								Bent DOWN	5° MAX	Crimp width	3.4

Tool product No.	DF11-	TA22	HC					Stripping dimen	sion of wire	1.	7 to 2.3
	Standa	rd app	licable wire		Colore haiste	Cuince bailebt	Tanaila staaristh	Crir	nping quali	ty standard	l
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter	Crimp height (contact wire)	Crimp height (Covering)	Tensile strength (N) or more	Item	Dimension	Item	Dimensior
	No.	No.	contact wire	of covering				Covering position	0.2 to 0.7	Twist	2° MAX
		22	17/0.16	φ 1.3	0.66 to 0.72	1.40 to 1.55	53	Position of top of	0.2 to 0.5	Rolling	5° MAX
	UL1061							contact wire	0.2 10 0.5	Koning	JIMPER
	Stranded							Bell mouth	0.1 to 0.3	Lance height	1.8 to 1.9
	wire							Bent UP	2° MAX	Crimping burr height	0.1 MAX
								Bent DOWN	3° MAX	Contact gap	0.21 to 0.27

Tool product No.	DF11-	TA24	28HC					Stripping dimen	1.	.7 to 2.3	
	Standa	rd app	licable wire		Crimer haisht	Crimp height	Tensile strength	Crir	nping quali	ity standard	1
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter	Crimp height (contact wire)	1 1	(N) or more	Item	Dimension	Item	Dimension
contact product 110.	No.	No.	contact wire	of covering				Covering position	0.2 to 0.7	Twist	2° MAX
DE11 24285C		24	11/0.16	φ 1.5	0.60 to 0.66	1.40 to 1.55	27.4	Position of top of	0.2 to 0.5	Rolling	5° MAX
	UL1007 (UL1061)	26	7/0.16	φ 1.3	0.54 to 0.62	1.34 to 1.50	17.6	contact wire	0.2 10 0.5	Roning	JULIX
DF11-2428SCA		28	7/0.127	φ 1.2	0.54 to 0.60	1.30 to 1.46	11.7	Bell mouth	0.1 to 0.3	Lance height	1.8 to 1.9
	wire							Bent UP	2° MAX	Crimping burr height	0.1 MAX
								Bent DOWN	3° MAX	Contact gap	0.21 to 0.27

Tool product No.	HT102	2/DF1	1-2628S-S					Stripping dimen	sion of wire	1.	7 to 2.3
Amelia	Standar	rd appl	licable wire		Crimp height	Crimp height	Tensile strength	Crin	nping quali	ty standard	l
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)	(Covering)	(N) or more	Item	Dimension	Item	Dimension
	No.	No.	contact wire	of covering				Covering position	0.2 to 0.7	Twist	2° MAX
		26	7/0.16	$\phi 0.8$	0.54 to 0.62	1.25 to 1.35	17.6	Position of top of	0.2 to 0.5	Rolling	5° MAX
DF11-2428SC				φ 0.58		1.15 to 1.30		contact wire	0.2 10 0.5	Koning	J MAA
DF11-2428SCA	Stranded	28	7/0.127	φ 0.8	0.54 to 0.60	1.25 to 1.35	11.7	Bell mouth	0.1 to 0.3	Lance height	1.8 to 1.9
DF11A-2428SC	wire		r	φ 0.58		1.15 to 1.30		Bent UP	2° MAX	Crimping	0.1 MAX
	(Note)	This to	ol replaces t	he crimper by the				Dent OI	2 IVIAA	burr height	U.I MAA
		coverin	ig diameter of	the cable used.				Bent DOWN	3° MAX	Contact gap	0.21 to 0.27

Tool product No.	DF11-	TA30	HC					Stripping dimen	sion of wire	e 1.7 to 2.3	
	Standa	rd app	licable wire		Crimer haisht	Cuinen haiabt	Tourilo strength	Crin	nping quali	ity standard	l
Applicable	STYLE	AWG	Structure of	Outside diameter	Crimp height (contact wire)	1 0	Tensile strength (N) or more	Item	Dimension	Item	Dimension
contact product No.	No.	No.	contact wire	of covering	(contact who)	(covering)		Covering position	0.2 to 0.7	Twist	2° MAX
DF11-30SCA		30	7/0.1	φ 0.8	0.52 to 0.56	1.30 to 1.45	9.8	Position of top of contact wire	0.2 to 0.5	Rolling	5° MAX
	UL1061 Stranded							Bell mouth	0.1 to 0.3	Lance height	1.8 to 1.9
	wire							Bent UP	2° MAX	Crimping burr height	0.1 MAX
								Bent DOWN	3° MAX	Contact gap	0.21 to 0.27

Tool product No.	DF11H	EP-TA	2428HC					Stripping dimen	sion of wire	1.9 to 2.3	
A	Standa	rd app	licable wire		Crimp height	Crimp height	Tensile strength	Crin	nping quali	ty standard	l
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)		(N) or more	Item	Dimension	Item	Dimension
	No.	No.	contact wire	of covering				Covering position	0.2 to 0.8	Twist	2° MAX
DF11-EP2428PC		24	11/0.16	φ 1.5	0.60 to 0.66	1.40 to 1.56	35	Position of top of	0.2 to 0.5	Rolling	5° MAX
	UL1007	26	7/0.16	φ 1.3	0.54 to 0.60	1.34 to 1.50	24	contact wire	0.2 10 0.3	Koning	JMAA
	STI-EF2428FC UL1007 Stranded	28	7/0.127	φ 1.2	0.54 to 0.60	1.30 to 1.46	16	Bell mouth	0.1 to 0.3	Lance height	1.65 to 1.75
	wire							Bent UP	3° MAX	Crimping burr height	0.1 MAX
1				1				Bent DOWN	3° MAX	1	

Tool product No.	HT104	4/DF2	2-1416					Stripping dimen	sion of wire	3	.5 to 4.5
Amelia	Standa	rd app	licable wire		Crimp height	Crimp height	Tensile strength	Crin	nping quali	ity standard	1
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter	1	(Covering)	(N) or more	Item	Dimension	Item	Dimension
	No.	No.	contact wire	of covering	1			Covering position	0.2 to 1.2	Twist	3° MAX
		16	26/0.26	φ 2.6	1.32 to 1.40	3.00 to 3.20	147	Position of top of	0.2 to 1.3	Rolling	3° MAX
DF22-1416PC	UL1430							contact wire	0.2 to 1.5	Roming	5 MEET
DF22-1416SC	Stranded			· .				Bell mouth	0.2 to 0.6		
[wire							Bent UP	3° MAX	Crimping	0.1 MAX
								Dent OI	JIMIM	burr height	0.1 101-12
							Bent DOWN	3° MAX			

Tool product No.	HT104	4/DF2	2A-1416				<u> </u>	Stripping dimer	ision of wire	3	.5 to 4.5
A Rookla	Standa	rd app	licable wire		Crimp height	Crimp height	Tensile strength	Criı	nping quali	ty standard	1
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)	(Covering)	(N) or more	Item	Dimension	Item	Dimension
	No.	No.	contact wire	of covering		(1113)	(-)	Covering position	0.2 to 1.2	Twist	3° MAX
DF22A-1416PC		14	41/0.26	φ 3.7	1.42 to 1.50	4.00 to 4.20	147	Position of top of	0.2 to 1.3	Rolling	3° MAX
	UL1015	16	54/0.18	φ 3.2	1.30 to 1.38	3.70 to 3.90	147		0.2 10 1.5	Koming	5 MAA
DF22A-1416SC								Bell mouth	0.2 to 0.6		
	wire							Bent UP	3° MAX	Crimping burr height	0.1 MAX
								Bent DOWN	3° MAX		

Tool product No.	DF1B	-TA2(22SHC					Stripping dimens	sion of wire	2.	0 to 2.5
Applicable	Standa	rdappli	icable wire		Crimp height	Crimp height	Tensile strength	Crin	nping quali	ty standard	1
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)	(Covering)	(N) or more	Item	Dimension	Item	Dimension
contact product 110.	No.	No.	contact wire	of covering	ľ í	0,		Covering position	0.1 to 0.9	Twist	3° MAX
		20	21/0.18	φ 1.8	0.84 to 0.94	2.10 to 2.20	88	Position of top of	0.1 to 1.2	Rolling	5° MAX
DF1B-2022SC	UL1007	22	17/0.16	φ 1.6	0.74 to 0.86	2.00 to 2.20	53	contact wire	0.1 10 1.2	Konnig	JIMAA
DF1B-2022SCA	Stranded							Bell mouth	0.2 to 0.4	Lance height	0.4 to 0.6
0	wire							Bent UP	3° MAX	Crimping burr height	0.1 MAX
								Bent DOWN	3° MAX		

Tool product No.	DF1B	-TA2	D22PHC					Stripping dimen	3.	0 to 3.7	
A	Standa	rdappl	icable wire		Crimp height	Crimp height	Tensile strength	Crin	iping quali	ty standard	1
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)	(Covering)	(N) or more	Item	Dimension	Item	Dimension
contact product 100.	No.	No.	contact wire	of covering				Covering position	0.1 to 0.7	Twist	2° MAX
		20	21/0.18	φ 1.8	0.86 to 0.96	1.65 to 1.85	88	Position of top of	0.1 to 0.5	Rolling	5° MAX
	UL1007	22	17/0.16	φ 1.6	0.82 to 0.90	1.45 to 1.65	53	contact wire	0.1 10 0.5	Koning	5 MAA
DF1B-2022PCB	Stranded							Bell mouth	0.1 to 0.3	Lance height	2.1 to 2.4
	wire							Bent UP	3° MAX	Crimping burr height	0.1 MAX
								Bent DOWN	3° MAX		

Tool product No.	DF1B	-TA24	28SHC					Stripping dimens	sion of wire	2.	.0 to 2.5
A P L1.	Standa	rdappl	icable wire		Crimp height	Crimp height	Tensile strength	Crin	nping quali	ty standard	1
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)	(Covering)	(N) or more	Item	Dimension	Item	Dimension
	No. No. contact wire of covering					• /	Covering position	0.1 to 0.9	Twist	3° MAX	
-		24	11/0.16	φ 1.5	0.76 to 0.82	1.40 to 1.60	36	Position of top of	0.1 to 1.2	Rolling	5° MAX
	UL1007	26	7/0.16	φ 1.3	0.68 to 0.74	1.25 to 1.45	24	contact wire	0.1 10 1.2	Konnig	JIMAA
DF1B-2428SCA	Stranded	28	7/0.127	φ 1.2	0.68 to 0.74	1.25 to 1.45	16	Bell mouth	0.2 to 0.4	Lance height	0.4 to 0.6
	wire							Bent UP	3° MAX	Crimping burr height	0.1 MAX
								Bent DOWN	3° MAX		

Tool product No.	DF1B	-TA24	428PHC					Stripping dimension of wire			.0 to 3.7
America	Standa	rdappli	icable wire		Crimp height	Crimp height	Tensile strength	Crin	nping quali	ity standard	1
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)	(Covering)	(N) or more	Item	Dimension	Item	Dimension
•		No.	contact wire	of covering				Covering position	0.1 to 0.7	Twist	2° MAX
DEL DEL MAGGE		24	11/0.16	φ 1.5	0.68 to 0.74	1.40 to 1.60	36	Position of top of	0.1 to 0.5	Rolling	5° MAX
	UL1007	26	7/0.16	φ 1.3	0.60 to 0.66	1.35 to 1.55	24	contact wire	0.1 10 0.5	Koning	JWIAN
DF1-PD2428SCB	B Stranded	28	7/0.127	φ 1.2	0.60 to 0.66	1.30 to 1.50	16	Bell mouth	0.1 to 0.3	Lance height	2.1 to 2.4
	wire							Bent UP	3° MAX	Crimping burr height	0.1 MAX
							-	Bent DOWN	3° MAX		

Tool product No.	DF1B-	-TA30	OSHC					Stripping dimens	sion of wire	2	.0 to 2.5
Applicable	Standar	rdappli	icable wire		Crimp height	Crimp height	Tensile strength	Crin	ıping quali	ty standard	ł
contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)	(Covering)	(N) or more	Item	Dimension	Item	Dimension
	No. No. contact wire of covering C					Covering position	0.1 to 0.9	Twist	3° MAX		
		30	7/0.1	φ 1.1	0.60 to 0.66	1.20 to 1.40	9.8	Position of top of	0.1 to 1.2	Rolling	5° MAX
DF1B-30SC	UL1007							contact wire	0.1 10 1.2	Koning	Jun
DF1B-30SCA								Bell mouth	0.2 to 0.4	Lance height	0.4 to 0.6
0	wire							Bent UP	3° MAX	Crimping burr height	0.1 MAX
								Bent DOWN	3° MAX		

Tool product No.	DF1B	-TA3(PHC					Stripping dimens	sion of wire	3.0 to 3.7	
Applicable	Standa	rdappl	icable wire		Crimp height	Crimp height	Tensile strength	Crin	iping quali	ity standard	1
contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)	(Covering)	(N) or more	Item	Dimension	Item	Dimension
contact product 110.	No.	No.	contact wire	of covering		Č 07		Covering position	0.1 to 0.7	Twist	2° MAX
DF1B-30PC		30	7/0.1	φ 1.1	0.48 to 0.54	1.10 to 1.30	9.8	Position of top of	0.1 to 0.5	Rolling	5° MAX
	UL1007							contact wire	0.1 10 0.5	Konnig	JIMAA
DF1B-30PCB								Bell mouth	0.1 to 0.3	Lance height	2.1 to 2.4
[·	wire							Bent UP	3° MAX	Crimping burr height	0.1 MAX
								Bent DOWN	3° MAX		

Tool product No.	HT102	2/DF1	E-2022S					Stripping dimens	sion of wire	2.	.0 to 2.5
A	Standa	rdappl	icable wire		Crimp height	Crimp height	Tensile strength	Crin	iping quali	ty standard	1
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)	(Covering)	(N) or more	Item	Dimension	Item	Dimension
	No.	No.	contact wire	of covering				Covering position	0.1 to 0.9	Twist	3° MAX
		20	21/0.18	φ 1.8	0.88 to 0.94	2.10 to 2.20	59	Position of top of	0.1 to 1.2	Polling	5° MAX
DF1E-2022SC	UL1007	22	17/0.16	φ 1.6	0.78 to 0.84	2.00 to 2.10	39	contact wire	0.1 10 1.2	Rolling	JIMAA
	Stranded							Bell mouth	0.2 to 0.4	Lance height	0.4 to 0.6
	wire							Bent UP	3° MAX	Crimping burr height	0.1 MAX
								Bent DOWN	3° MAX		

Tool product No.	HT102	2/DF1	BE-2022P					Stripping dimens	sion of wire	3.	.0 to 3.7
A	Standa	rdappl	icable wire		Crimp height	Crimp height	Tansila strongth	Crin	nping quali	ity standard	1
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)	(Covering)	Tensile strength (N) or more	Item	Dimension	Item	Dimension
	No. No. contact wire of covering Co						Covering position	0.1 to 0.7	Twist	2° MAX	
DF1B-2022PC		20	21/0.18	φ 1.8	0.86 to 0.96	1.65 to 1.85	88	Position of top of	0.1 to 0.5	Rolling	5° MAX
	UL1007	22	17/0.16	φ 1.6	0.82 to 0.90	1.45 to 1.65	53	contact wire	0.1 10 0.5	Kolling	5 MAA
DF1B-2022PCB								Bell mouth	0.1 to 0.3	Lance height	2.1 to 2.4
	wire							Bent UP	3° MAX	Crimping burr height	0.1 MAX
								Bent DOWN	3° MAX		

Tool product No.	HT102	2/DF1	BE-2428P					Stripping dimens	sion of wire	3.0 to 3.7	
Applicable	Standa	rdappl	icable wire	· · · · · · · · · · · · · · · · · · ·	Crimp height	Crimp height	Tensile strength	Crin	nping quali	ity standard	1
**	STYLE			Outside diameter	(contact wire)	(Covering)	(N) or more	Item	Dimension	Item	Dimension
	No.	No.	contact wire	of covering				Covering position	0.1 to 0.7	Twist	2° MAX
		24	11/0.16	φ 1.5	0.68 to 0.74	1.40 to 1.60	36	Position of top of	0.1 to 0.5	Rolling	5° MAX
	UL1007	26	7/0.16	φ 1.3	0.60 to 0.66	1.35 to 1.55	24	contact wire	0.1 10 0.5	Roning	5 112 21
DF1-PD2428SCB		28	7/0.127	φ 1.2	0.60 to 0.66	1.30 to 1.50	16	Bell mouth	0.1 to 0.3	Lance height	2.1 to 2.4
	wire							Bent UP	3° MAX	Crimping burr height	0.1 MAX
								Bent DOWN	3° MAX		

Tool product No.	HT10	2/DF1	BE-30P					Stripping dimens	sion of wire	3.0 to 3.7	
A	Standa	rdappl	icable wire		Crimp height	Crimp height	Tensile strength	Crin	nping quali	ity standard	1
Applicable contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)	1	(N) or more	Item	Dimension	Item	Dimension
	No.	No.	contact wire	of covering				Covering position	0.1 to 0.7	Twist	2° MAX
DF1B-30PCB St		30	7/0.1	φ 1.1	0.48 to 0.54	1.10 to 1.30	9.8	Position of top of	0.1 to 0.5	Rolling	5° MAX
	UL1007							contact wire	0.1 10 0.5	Ronnig	JIMMA
	Stranded							Bell mouth	0.1 to 0.3	Lance height	2.1 to 2.4
	wire							Bent UP	3° MAX	Crimping burr height	0.1 MAX
							Bent DOWN	3° MAX			

Tool product No.	MDF6	5-TA1	618HC					Stripping dimen	sion of wire	2	.7 to 4.4
Applicable	Standar	rdappli	icable wire		Crimp height	Crimp height	Tensile strength	Crin	nping quali	ty standar	ł
contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)	(Covering)	(N) or more	Item	Dimension	Item	Dimension
	No.	No.	contact wire	of covering				Covering position	0.1 to 1.1	Twist	3° MAX
MDF6-1618SC UL100		16	26/0.26	φ 2.4	1.28 to 1.34	2.40 to 2.55	147	Position of top of	0.1 to 1.0	Rolling	5° MAX
	UL1007	18	34/0.18	φ 2.1	1.12 to 1.18	2.20 to 2.35	127	contact wire	0.1 10 1.0	Kolling	5 MAX
	Stranded							Bell mouth	0.1 to 0.3	Lance height	0.65 to 0.75
	wire				Bent UP	3° MAX	Crimping burr height	0.1 MAX			
								Bent DOWN	3° MAX		

Tool product No.	MDF	5-TA2	022HC					Stripping dimens	sion of wire	2	.7 to 4.4
Applicable	Standa	rdappl	icable wire		Crimp height	Crimp baight	Tensile strength	Crin	iping quali	ity standard	1
contact product No.	STYLE	AWG	Structure of	Outside diameter	(contact wire)	(Covering)	(N) or more	Item	Dimension	Item	Dimension
	No.	No.	contact wire	of covering		(Covering position	0.1 to 1.1	Twist	3° MAX
		20	21/0.18	φ 1.8	0.90 to 0.96	1.90 to 2.05	88	Position of top of	014-10	Delline	59 MAY
MDF6-2022SC	UL1007	22	17/0.16	φ 1.6	0.84 to 0.90	1.70 to 1.85	53	contact wire	0.1 to 1.0	Rolling	5° MAX
	Stranded				:			Bell mouth	0.1 to 0.3	Lance height	0.65 to 0.75
	wire							Bent UP	3° MAX	Crimping burr height	0.1 MAX
							Bent DOWN	3° MAX			

Tool product No. Applicable contact product No.	MDF1	l2-TA	1416HC		Stripping dimension of wire		3.	.3 to 4.2			
	Standa	rdappl	icable wire			Crimp height	Tensile strength	Crimping quality standard			
	STYLE No.	AWG Structure of		Outside diameter	Crimp height (contact wire)	(Covering)	(N) or more	Item	Dimension	Item	Dimensior
		No.	contact wire	of covering	((Covering position	0.5 to 1.4	Twist	2° MAX
		14	41/0.26	φ 3.0	1.44 to 1.56	2.80 to 2.95	147	Position of top of contact wire 0.1 to	0.1 += 1.0	Dall	5º MAY
	UL1007 Stranded	16	26/0.26	φ 2.4	1.32 to 1.40	2.70 to 2.85	147		0.1 10 1.0	Rolling	5° MAX
								Bell mouth	0.1 to 0.5	Lance height	0.1 to 0.3
	wire							Bent UP	3° MAX	Crimping burr height	0.2 MAX
								Bent DOWN	3° MAX		

Tool product No. Applicable contact product No.	MDF1	l2A-T	A1416HC		Stripping dimension of wire		. 3	.3 to 4.2			
	Standa	rdappl	icable wire			Crimp height	Tensile strength	Crimping quality standard			
	STYLE No.	AWG	AWG Structure of	Outside diameter (c			(N) or more	Item	Dimension	Item	Dimension
		No.	contact wire					Covering position	0.5 to 1.4	Twist	2° MAX
	Stranded	41/0.26	φ 3.7	1.44 to 1.56	3.60 to 3.80	147	Position of top of	0.1 to 1.0	Delline	5° MAX	
-		16	26/0.26	φ 3.2	1.32 to 1.40	3.40 to 3.60	147	contact wire	0.1 to 1.0	Rolling	5 MAA
								Bell mouth	0.1 to 0.5	Lance height	0.1 to 0.3
	wire							Bent UP	3° MAX	Crimping burr height	0.2 MAX
								Bent DOWN	3° MAX		

Tool product No.	MDF1	2-TA	1822HC		Stripping dimens	sion of wire	3.	.3 to 4.2			
Applicable contact product No.	Standa	rdappl	icable wire		Crimp height	Crimp height	Tensile strength	Crimping quality standard			
	STYLE	AWG Structure of	Outside diameter	(contact wire)	(Covering)	(N) or more	Item	Dimension	Item	Dimension	
	No.	No.	contact wire	of covering	l` í			Covering position	0.5 to 1.4	Twist	2° MAX
	UL1007	18	34/0.18	φ 2.1	1.06 to 1.12	2.10 to 2.25	98	Position of top of contact wire	0.1 to 1.0	Rolling	5° MAX
MDF12-1822PC		20	21/0.18	φ 1.8	1.02 to 1.10	2.05 to 2.20	88		0.1 10 1.0	Koming	JIMAA
	Stranded	22	17/0.16	φ 1.6	1.02 to 1.08	2.00 to 2.15	53	Bell mouth	0.1 to 0.5	Lance height	0.1 to 0.3
- 	wire							Bent UP	3° MAX	Crimping burr height	0.2 MAX
								Bent DOWN	3° MAX		

Tool product No.	Fool product No. MDF12A-TA1822HC						Stripping dimension of wire			3.3 to 4.2	
Applicable contact product No.	Standar	rdappli	icable wire		Crimp height	Crimp height	Tensile strength	Crimping quality standa		ty standard	1
	STYLE No.	AWG	AWG Structure of	Outside diameter	1 0		(N) or more	Item	Dimension	Item	Dimension
		No.	contact wire	of covering				Covering position	0.5 to 1.4	Twist	2° MAX
	UL1015 Stranded	18	34/0.18	φ 2.9	1.06 to 1.12	2.80 to 2.97	98	Position of top of contact wire	0.1 to 1.0	Rolling	5° MAX
MDF12A-1822PC		20	21/0.18	φ 2.6	1.02 to 1.10	2.65 to 2.84	88		0.1 10 1.0	Koning	5 1000
		22	17/0.16	φ 2.4	1.02 to 1.08	2.63 to 2.75	53	Bell mouth	0.1 to 0.5	Lance height	0.1 to 0.3
	wire			1				Bent UP	3° MAX	Crimping burr height	0.2 MAX
								Bent DOWN	3° MAX		

Tool product No.	HT104	4/GT3	8-2024		Stripping dimension of wire		4	.1 to 4.7			
Applicable contact product No.	Standar	rdappl	icable wire			Crimp height	Tensile strength	Crimping quality standard			d
	STYLE	AWG	AWG Structure of	Outside diameter	Crimp height (contact wire)	1 0	(N) or more	Item	Dimension	Item	Dimension
	No.	No.	contact wire	of covering	(contact wite)	(covering)		Covering position	0.1 to 0.7	Twist	3° MAX
	JIS AVS Stranded	0.5	7/0.32	φ 2.0	0.98 to 1.04	2.20 to 2.30	88	Position of top of contact wire	0.1 to 0.7 R	Rolling	5° MAX
GT3-2024SCF		0.3	7/0.26	φ 1.8	0.89 to 0.95	2.10 to 2.20	53		0.1 10 0.7	0.7 Koning	JINAA
								Bell mouth	0.2 to 0.5		
	wire							Bent UP	3° MAX	Crimping burr height	0.3 MAX
								Bent DOWN	3° MAX		

7-2. Example of defective crimping















(1) No or excessive bell mouth

This may occur because of adjustment condition of the tool or setting of the contact to the tool. There is a danger of wire break of the conductor, shortage of tensile strength or unsteady state of electrical connection since there is no bell mouth or an excessive bell mouth.

(2) Deep indentation

This may occur when the stripping dimensions of wire or setting of the wire to the tool is improper.

There is a danger of wire break of the conductor by the deep indentation.

(3) Insufficient insertion of conductor

This may occur when the stripping dimensions of wire is improper.

There is a danger of the shortage of tensile strength or unsteady state of electrical connection because of the insufficient insertion of the conductor.

(4) Poor pressing

This may occur when the stripping dimensions of the wire is improper.

There is a danger of wire break since the load applied to the wire is directly transmitted to the crimped section of the conductor by the poor pressing.

(5) Protrusion of the conductor is too long.

This may occur when the stripping dimensions of the wire or setting of the wire to the tool is improper.

There is a danger of contact trouble of the contact or insufficient insertion into the housing since the protrusion of the conductor is too long.

(6) Protruded conductor

This may occur when the wire, the conductor of which is loosened is used. There is a danger of the unsteady state of electrical connection or shortage of tensile strength because of the protruded conductor.

(7) Deformed contact (Bent UP/DOWN)

This may occur by the adjustment condition or wear of the tool, setting condition of the contact in the tool, or handling of the contact. If the bent UP/DOWN is excessive, insertion of the contact into the housing may not be performed.

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(8) Deformed contact (Twist)

This may occur by the adjustment condition of the tool, setting condition of the contact in the tool, or handling of the contact. If the twist is excessive, insertion of the contact into the housing may not be performed.

(9) Deformed contact (Rolling)

This may occur by the adjustment condition of the tool, wear of blade edge, setting condition of the contact in the tool or handling of the contact. If the rolling is excessive, insertion of the contact into the housing may not be performed.

(10) Deformed insulation barrel (Kickback)

This may occur when the wire that is not applicable to the tool is used.

If the kickback is excessive, there may be a problem of pressure resistance since the contact is exposed from the housing after the contact has been inserted into the housing.

(11) Uneven anvil indentation

This may occur by the wear of anvil or the like. If the anvil indentation is uneven, there may be an unsteady state of electrical contact.

(12) Damaged or nicked crimped face

This may occur when there is a damage or wear on the crimper.

If there is a damage or niclk on the crimped face, deformation of the contact, peeling of coatings, etc. may occur.

(13) Too large or irregular crimping burr

This may occur because of the adjustment condition of the tool, or wear or damage on the crimper or anvil. There is a danger of crack on the contact at the burr section, unsteady state of electrical connection, shortage of tensile strength, or deformation of the contact since the burr is excessive, or right- and left-hand sides of the contact are not even.

8. Insertion of contact into housing

8-1. Checking of lance height



Check to be sure that the lance height of the crimped contact is in the range of the specified dimensions.

8-2. Assembling procedure (example)

- (1) Hold a part of the wire which is located within 10 cm from the contact and insert it into the housing.
- (2) Insert the contact into the housing so that the contact should be levelled to the housing.
- (3) Do not interrupt inserting the contact when performing the insertion and completely perform the insertion until the lance is engaged. There are a sound of "snap" and response when the lance is properly engaged.



8-3. Checking the assembly condition of the housing



8-4. Drawing out the contact

Drawing out the contact from the housing varies in accordance with the connectors. Exclusive jigs for drawing out the contact are prepared for some tools. For details, check the catalogue for connectors.

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8-5. Checking after assembly



- (1) Check to be sure that the contact is correctly assembled into the housing.
- (2) Slightly pull the wire by hand and check to be sure that the contact cannot be pulled out.

9. Other precautions

9-1. Precautions when tying the wire

Make an allowance for the wire when tying the wire so that an extra load is not applied to the contact. When tying both ends of the wire, be careful that any load is not applied to the contact on which the wire is tied first.

9-2. Continuity pressure resistance check

When performing the electrical test for the tied wire, perform the test in a state that the wire is fit for the connector on the receiving side.

If foreign material is inserted into the contact section of the contact, the contact section is deformed. As a result, there is a danger of defective continuity.

9-3. Handling the contact

- (1) Do not touch the contact more frequently than minimum required opportunity.
- (2) When touching the contact, wear the gloves or the like to prevent the contact from corrosion.
- (3) Do not roughly handle the contact. The contact is deformed if any thing is placed on the contact or the contact is dropped.
- (4) Do not forcibly pull the contact when it is entangled. Disentangle it with care to prevent it from possible deformation.
- (5) Lightly pick up the contact when picking it up. Do not pick up the lance, contact section, etc. which are easily deformed.
- (6) Be careful so that the respective contacts of the wires that have been crimped should not be entangled with each other. In case tying or overlapping the crimped wires, be careful that external force should not be applied to the contacts.
- (7) Keep the contact in a polyvinil bag or the like to prevent it from corrosion.

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