

Instruction Sheet

411-5391

取扱説明書

(Was IS-391J) 16 JUL 01 Rev. 01

POSITIVE LOCK EX CONTACT

ホ シ ティブ・ロック - EX コンタクト

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Outline of the latest revision (最新改訂の概要)

Combine two language versions into one document. No change was made on product specification. Change document number to current format.

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最新の改訂に関しては当社本支店にお問い合わせ下さい。

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POSITIVE LOCK EX CONTACT

411-5391 (was IS-391J)		
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INSTRUCTION SHEET

1. INTRODUCTION:

This instruction sheet covers crimping, handling, assembly and harness instrumentation of AMP positive lock EX connector contacts, manufactured by AMP Japan. Read this instruction sheet carefully, before you start operation.

For the purpose of this instruction sheet, the following terms should be definitely referred to.



2. APPLICABLE PRODUCTS:

Series	Contact	Type	Product Part No.		
"187" St	Straight Type	<u>т</u> ъ	173722-1	AWG #26-#20	
		173724-1	AWG #20-#14		
			175032-1	AWG #26-#20	
			175034-1	AWG #20-#14	
	Flag	Туре	175019-1	AWG-#22-#16	
"250"	Straight Type	<i></i>	175020-1	AWG #22-#18	
		175022-1	AWG #18-#14		
			175024-1	∧WG #15-#10	· · · · · · · · · · · · · · · · · · ·
					······································
	Flag Type	175057-1	AWG #18-#12		
			175178-1	AWG #12-#10	

3. APPLICABLE SPECIFICATIONS:

Series and Ty	pe	Product Specifications	Application Specification
"187" Straight	Туре	108 - 5236	114 - 5114
"187" Straight	Туре	108 - 5257	114 - 5125
"187" Flag	Type	108 - 5250	114 - 5118
"250" Straight	Туре	108 - 5251	114 - 5119
"250" Flag	Туре	108 - 5254	114 - 5122
		(1//.)	

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4. HANDLING INSTRUCTIONS:

- A. <u>Confirmation of Products:</u>
- (1) Before starting operation, be sure to check the contacts, and confirm that no abnormalities such as deformation and dirt are existing on them, and also after crimping, check to see if the crimping is normally done.
- (2) The excessive bending and twisting of the terminal strip on the reel, will cause damage of locking lever of the contact, thus resulting deformation. Avoid using the defective contacts, when any abnormalities are found on the contacts.
- (3) When any defective crimping is found, it implies that any mismatching exists on the tooling and/or contact. If any abnormalities are found, check and correct the cause of the defects, and when you can not recover the failure, contact AMP company or sales representative of your area, and have them recovered.

B. <u>CRIMPING OF CONTACTS</u>:

- (1) The crimping of contacts must be performed by using the correct crimping tool of AMP's designation. The crimping should be controlled be referring to the applicable application specification as shown in sheet 1. When any deviation is found in your crimping, and if the deformation grows larger, readjustment of the tooling, or replacement of the parts must be needed. Contact AMP and follow the remedy action as required.
- (2) During crimping operation, care must be taken, that the lever area of the contact must be kept intact, avoiding to have it caught by the machine corners and other projecting objects in the work area.
- (3) Do not attempt crimping without insertion of wire on the contact. If you do this, the faulse-crimped contact will come strayed in the crimp die and it may be sheared by its middle of the body, resulting jam of deformed contact filling the groove for eliminating waste cut carrier tips. And if you continue crimping with the groove choked, the cut tips will pile up and affecting the crimped contact to be bent up and contact lever may be deformed.
- (4) When you suspend crimping with your terminal reel half used, fasten the free end of the strip with rubber band onto the hole of the reel. Do not try to pass the strip end through the hole of the reel. If you do this, the contact lever may be affected to be deformed.

C. HANDLING CRIMPED CONTACTS:

When crimping a bundle of wires is finished, most people try to make the wire ends flush, by dropping the bundle on the work bench. At this time, avoid rough handling of the crimped contact to strike the bench too strongly. Try to drop the bundle very moderately, allowing the terminated contact not to deform by hitting the bench.



Fig. 2

- (2) Do not throw the lead bundles roughly into the container, when to store them. One careless, rough handling will spoil all the prior efforts to keep good quality. Stacking containers with bundles of leads put inside is also a matter to be avoided. Because the weight of the container will often affect contacts to be deformed unanticipatedly.
- (3) When undoing lead bundles, care must be taken not to have contacts caught together, and separate and release them moderately, if they are caught together.



D. MATING OF POSITIVE LOCK RECEPTACLES WITH TAB CONTACTS:

 When to mate positive lock receptacle contacts with tab contacts, insert tab contact straight into the receptacle with a normal force to apply. Do not apply a forcing load to contact, especially not in the inserting direction along the contact axis.

This forcing action is called a sort of "Kojiri" motion in Japanese term. "Kojiri" often causes deformation of contacts, resulting malfunction of terminating parts.



(2) When to extract tab from receptacle contact, first, depress lever down to unlock the contact mating, then, pull the receptacle straight back to youself. Refer to Fig. 5, as the reversed action to mating as shown. Improper, forcing extraction or pulling back with "Kojiri" motions, will cause deformation of contact leaf, resulting defective contact termination when applied again for connection.

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E. HARNESS ASSEMBLY AND INSTRUMENTATION:

- (1) At harness assembly, give surplus free length to the wire leads running out of the connector, in order that the insertion and extraction handling can be performed easily, without affecting the connector with excessive jerking load on the contacts. It is recommended that the surplus free length should be 70mm (2.75 in.) approximately, though it may vary depending upon the type and size of the wires used for termination.
- (2) Have the wire leads pulled out with proper slack, avoiding to give strain tension to the wires. This is to lessen the load pulling the contacts.
- (3) When to arrange the lead wires to turn to the different direction from the applied connector working axis, give a slacking room to the wire leads by making them turn in a sufficiently large radius. This care should be taken, especially when you use large size wires for termination that often have stiff properties to bend, or give a preparative bending to the tabs to suit for the direction of the running of the leads.



ポジティブ・ロック ー EXコンタクト 取扱説明書

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作	成	В	12 - 4 - '87
次	ŧ,	日	16 JUL 01

Rev.O1

この取扱説明書は、Fig.1に示すポジティブ・ロックーEXコンタクトの取扱説明方法について 説明しています。ご使用の前に必ず本取扱説明書をお読み下さい。

1.端于	子各部の	名称:	** 44 cT 34 4s		The multiplication of the second s
		<u>7177</u>	芯線圧増部	12 線 他線後度押: ベルマウス	
2. 適	用製	品:	3289	ト部(ローリング部分)	Fig. 1
<u>ک</u>	リーズ	タイプ	製品型番	適用電線サイズ	適用スリーブの型番
		ストレート型	$\frac{173722 - 1}{173724 - 1}$	AWG #26 - #20 AWG #20 - #14	174737 - 🗆
1	87		<u>175032 - 1 *</u> <u>175034 - 1 *</u>	AWG #26 - #20 AWG #20 - #14	
		旗 型	175019 - 1	AWG #22 - #16	174816 - 🗆
2	50	ストレート型	$\frac{175020 - 1}{175022 - 1}$ $\frac{175022 - 1}{175024 - 1}$		174817 - 🗆
			175164 - 1 *		
		旗 型	175057 - 1	AWG #18 - #12	/
* 耐熱用タイフ(ステンレス スチール材) 3.適用規格:					
シリーズ及びタイプ		【及びタイプ	製品規格番号	取付適用規格番号	 ₽
187 ストレート型		トレート型	108 - 5236	114 - 5114	
187 ストレート型 *		トレート型 *	108 - 5257	114 - 5125	
187 旗 型		型	108 - 5250	114 - 5118	
250 ストレート型			108 - 5251	114 - 5119	
	250 ス	トレート型 *	108 -5316	114 - 5146	
	250 旗	型	108 - 5254	114 - 5122	

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 4. 取扱注意事項 	:
A. 圧着前の確認	 (1) 圧着作業を始める前に端子に変形がないことを確認してさい。 (2) リールに巻かれた連鎖状端子が、つなぎ部分で極端に折詰曲げられたり又はねじられたりすると、ロッキングレバー部(以下レバー部という)がダメージを受け、変形することである為注意して下さい。 (3) 通常作業で端子変形のある場合は、圧着工具又は端子に行らかの異常又は不良がある場合です。 AMPに連絡して修正させて下さい。
	(1) 圧着はAMPの指定する圧着工具で正しく圧着して下さ 圧着時の圧着条件は、取付適用規格に準拠し、圧着変形
	大きくなった場合は、圧着工具の調整又は部品交換を行って下さい。 (2) 圧着作業時にレバー部を機械、その他の部品に引っ掛け いように注意して下さい。
B. 圧 着	Fig. 2
	(3) 圧着において空打ちしないで下さい。 圧着不良が出た時に、空打ちして端子本体を切断してしまうと、その破断片がキャリアカットの落ちる溝に固着し、
	そのままの状態で作業を続けると破断片が詰まり、レバー 先端を無理に押し上げてしまいレバー変形を発生させます (4) リールの途中で圧着が完了し、端子をリール内で借り止め する場合は、端子にダメージを与えない為輪ゴム等を使用 て下さい。端子をリールの穴に通して折り曲げるとレバー

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 D. タブ 嵌合及び 引抜作業 	・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・
E.ハーネス実装	 (1) 端子を容易に抜き差しできるように束線しない部分の電線 長さを充分とって下さい。この長さは電線の太さによって も異なりますが約70mm程度必要です。 (2) 端子に常に張力がかかっている状態は避け、束線しない部 分の電線にはたるみを持たせて下さい。 (3) 束線しない部分の電線を嵌合方向と別方向に取り出す場合 電線が太いと張力が大きくなる傾向にある為、被覆抑え部 からの電線曲げRを大きく取るか、又はタブを電線の取出 し方向へあらかじめ曲げて下さい。