

10 MAR 11 Rev C

PROPER USE GUIDELINES

Cumulative Trauma Disorders can result from the prolonged use of manually powered hand tools. Hand tools are intended for occasional use and low volume applications. A wide selection of powered application equipment for extended-use, production operations is available.

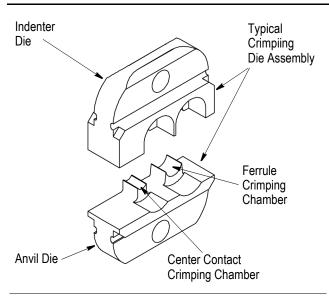


Figure 1

1. INTRODUCTION

SDE (Two-Piece) Crimping Die Assemblies are designed to crimp a variety of connectors when used in PRO-CRIMPER* III Frame Assembly 354940-1. Refer to Figure 5 for a list of connectors and their associated dies.

Catalog 1307191 provides a guide for cable-toconnector selection. For connectors not referenced in the catalog, contact Tyco Electronics Product Engineering for recommendations.

Refer to instruction sheet 408-9930 for information concerning PRO-CRIMPER II Hand Tool Frame 354940-1.



Dimensions in this instruction sheet are in millimeters [with inches in brackets]. Figures are for reference only, and are not drawn to scale.

Reasons for reissue of this instruction sheet are provided in Section 8, REVISION SUMMARY.

2. DESCRIPTION

Each two-piece crimping die assembly consists of an indenter die and an anvil die, which when closed forms two or three crimping chambers. The larger crimping chambers crimp the ferrule of the connector onto the coaxial cable. The smaller crimping chamber crimps the center contact onto the center conductor of the

coaxial cable. Each die is held in the PRO-CRIMPER III hand tool jaws by a single screw. See Figure 1.

3. DIE INSTALLATION (Figure 1)

- 1. Close the tool handles until the ratchet releases, then allow the tool handles to open fully.
- 2. Install anvil die in the movable jaw of the tool frame. Align the die with the retaining screw hole, then secure die with the die-retaining screw. Do NOT fully tighten.
- 3. Install indenter die in the stationary jaw of the tool frame. Slowly close the tool handles, allowing the dies to align themselves.



Once the anvil has entered the indenter, place a copper bus bar $(1.57 \pm 0.05 [.062 \pm .002])$ diameter) into the center contact crimping chamber of the die assembly.

- 4. Close the tool handles completely.
- 5. Securely tighten both screws with the appropriate screwdriver.

4. CRIMPING PROCEDURE

Select the appropriate cable size and connector. The wire size and insulation diameter must be within the specified range for the connector.



This tool is provided with a crimp height adjustment feature. Initially, the crimp height should be verified. Refer to Section 5, Crimp height Adjustment, to verify crimp height before using the tool.

For detailed information on cable strip lengths and proper assembly of the connector, refer to the instructions packaged with the connector. Make sure that the connector's ferrule has been placed onto the cable, and that the cable's braided shield is flared away from the cable. Then proceed as follows:

4.1. Crimping the Center Contact (Figure 2)

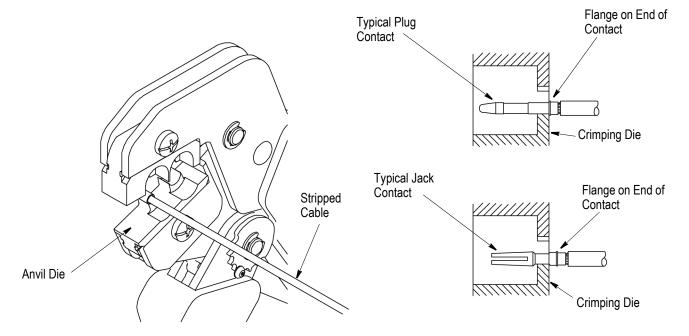
- 1. Close the tool handles until the dies are partially closed.
- 2. Assemble the center contact onto the cable center conductor and place the center contact in the smallest crimping chamber of the anvil die.



Make sure the flange on the end of the center contact butts against the die.



Crimping the Center Contact



NOTE: Typical Crimping Dies Shown

Figure 2

- 3. Holding the cable in place, close the tool handles until the ratchet releases.
- 4. Allow the tool handles to open fully and remove the crimped center contact from the dies.

4.2. Crimping the Ferrule (Figure 3)

- 1. Insert the crimped center contact into the connector body until the cable dielectric butts against the dielectric inside the connector body or until the center contact is securely positioned within the connector. Make sure that the braided shield is over the support sleeve of the connector body and that no strands from the shield enter the connector body.
- 2. Slide the ferrule up over the braided shield and onto the connector until the ferrule butts against the shoulder on the connector body.
- 3. Place the ferrule in the appropriate crimping chamber of the anvil die so that the shoulder on the connector body butts against the edge of the die.



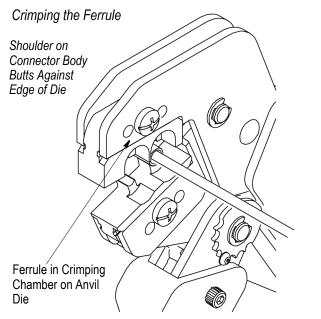
Refer to the instruction sheet packaged with the connector to determine the appropriate crimping chamber for the ferrule.

4. With a screwdriver, adjust the ratchet wheel from the opposite side of the tool.



Make sure that both sides of the ferrule are started evenly into the crimping chamber. Do not attempt to crimp an improperly positioned ferrule.

5. Carefully close the tool handles until the ratchet releases.



NOTE: Typical Crimping Dies Shown

Figure 3

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6. Allow the tool handles to open fully and remove the crimped connector from the dies.



Damaged product should not be used. If a damaged contact or ferrule is evident, it should be replaced with a new one.

5. CRIMP HEIGHT ADJUSTMENT (Figure 4)

The tool frame assembly ratchet mechanism features an adjustment wheel with numbered settings. If the crimp height is not acceptable, adjust the ratchet as follows:

- 1. Remove the lockscrew from the ratchet adjustment wheel.
- 2. With a screwdriver, adjust the ratchet wheel from the opposite side of the tool.

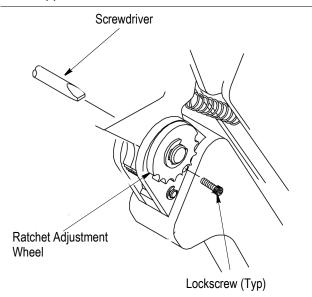


Figure 4

- 3. Observe the ratchet adjustment wheel. If a tighter crimp is required, rotate the adjustment wheel COUNTERCLOCKWISE to a higher-numbered setting. If a looser crimp is required, rotate the adjustment wheel CLOCKWISE to a lower-numbered setting.
- 4. Replace the lockscrew.
- 5. Make a sample crimp and measure the crimp height. If the crimp height is acceptable, secure the lockscrew. If the dimension is unacceptable, remove lockscrew and continue to adjust the ratchet, and again measure a sample crimp.

6. MAINTENANCE AND INSPECTION

6.1. Maintenance

- 1. Remove dust, moisture, and other contaminants with a clean, soft brush, or a clean, soft, lint-free cloth. Do NOT use any objects that could damage the dies or tool.
- 2. Make sure that the proper die-retaining screws are properly secured.
- 3. When the dies are not in use, store them in a clean, dry area.
- 4. Store the tool with the tool handles closed to prevent objects from becoming lodged within the jaws.

6.2. Inspection

- 1. Remove all lubrication and accumulated film from the dies by immersing the dies in a suitable commercial degreaser.
- 2. Make certain that all die-retaining screws and die components are properly secured.
- 3. Inspect the crimping surfaces for flattened, chipped, worn, or cracked areas. If damage is evident, the dies must be replaced. Refer to Section 7, REPLACEMENT.

6.3. Measuring the Die Opening

The die assembly will perform correctly as long as:

- the product specified is correct for the application,
- the specific die assembly is used,
- the die assembly has been measured to ensure that the openings are correct, and
- the tool has been adjusted correctly. Figure 5 provides information on die opening sizes.

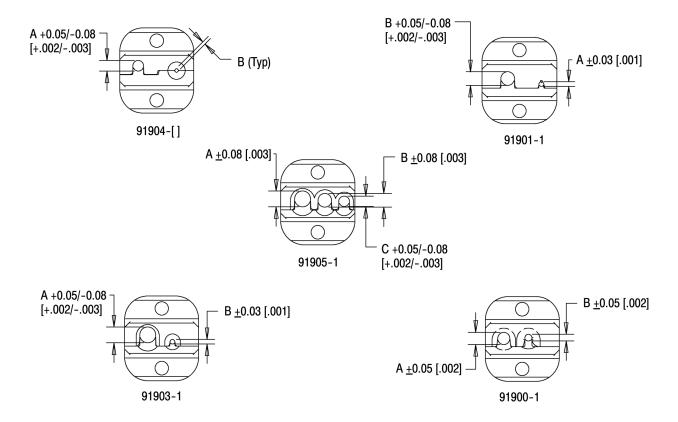
Die assembly 91901-1 will require a center contact crimp height inspection using a micrometer with a with a modified anvil as shown in Figure 6. Tyco Electronics does not manufacture or market these gages. However TE recommends use of the modified micrometer (Crimp Height Comparator) found in 408-7424. Refer to 408-7424 for instructions and ordering information of the crimp height comparators.

Proceed with center contact crimp height inspection as follows:

- 1. Select an appropriate center contact and cable.
- 2. Crimp a test center contact.
- 3. Using crimp height comparator, measure wire barrel crimp height as shown in Figure 6. If the crimp height conforms to that shown in the table, the tool is considered dimensionally correct. If not, return the tool to Tyco Electronics for evaluation and repair (refer to Section 7, REPLACEMENT).

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DIE SET	DESCRIPTION	DIE CLOSURE DIMENSIONS		
		Α	В	С
91904-1	BNC COAXICON Connectors	4.32 [.170]	1.321-1.257 [.052005000]	
91904-2	BNC COAXICON Connectors	6.20 [.244]	1.321-1.257 [.052005000]	
91904-3	BNC COAXICON Connectors	5.54 [.218]	1.283-1.219 [.05100480]	
91904-4	BNC COAXICON Connectors	5.05 [.199]	1.321-1.257 [.052005000]	
91901-1	BNC COAXICON Connectors	1.89 [.074]	5.54 [.218]	
91905-1	ARINC COAXICON Connectors	6.50 [.256]	5.56 [.219]	4.32 [.170]
91903-1	50-Ohm C HN, N, and TNC COAXICON Connectors	6.50 [.256]	1.93 [.076]	
91900-1	LFR Fiber Optic Connectors	4.98 [.196]	2.77 [.109]	

Figure 5

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7. REPLACEMENT

These crimping die assemblies are inspected before shipment. It is recommended that the dies be inspected immediately upon arrival at your facility to ensure that the dies have not been damaged during shipment.

Order replacements (or send for evaluation and repair) through your local Tyco Electronics Representative, or call 1-800-526-5142, or send a facsimile of your purchase order to 1-717-986-7605, or write to:

CUSTOMER SERVICE (038-035) TYCO ELECTRONICS CORPORATION PO BOX 3608 HARRISBURG PA 17105-3608

8. REVISION SUMMARY

Since the previous release of these instructions, the TE Connectivity logo has been applied.

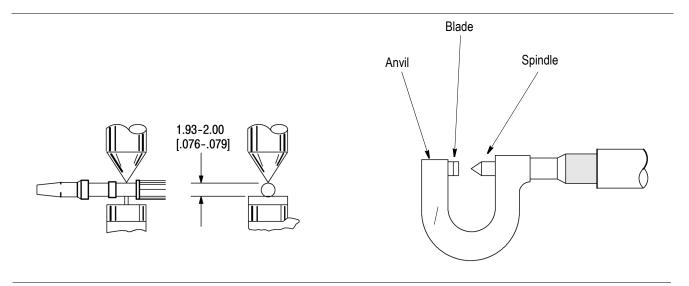


Figure 6

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OOO «ЛайфЭлектроникс" "LifeElectronics" LLC

ИНН 7805602321 КПП 780501001 P/C 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 3010181090000000703 БИК 044030703

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

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Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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