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## Specialty Hand Tools and Accessories

# Easier on the Hand, Precise on the Crimp



### PRO-CRIMPER III Hand Tool

Part No. 354940-1

The PRO-CRIMPER III Hand Tool combines the versatility of general purpose service tools with the reliability and ease of use of many premium grade tools. It is ideally suited for R&D prototyping, networking applications, and commercial, industrial, and institutional maintenance work. The precision design and manufacturing techniques that go into this tool ensure reliable, repeatable performance. The new handles and head design result in increased usable lifecycle.

**Versatile.** As part of the SDE family of tools, the system accommodates dozens of interchangeable dies in an ever-expanding range, including those for open-barrel contacts and terminals. Many die sets have multiple cavities for crimping more than one wire or terminal size at the same time.

**Dependable.** The tool is constructed of durable high-carbon steel with extra strength pivot pins, for maximum reliability and long-life precision. Locators are included with pin-and-socket style tools. They help properly locate the contact in the die set, provide a wire stop, and help minimize contact rotation and bending during crimping.

**Convenient.** User convenience and comfort features are evident throughout. User-adjustable ratchet control is provided for complete crimp cycling that helps eliminate partial crimps. An emergency ratchet release allows the user to open the tool jaws at any time during the crimp cycle. To reduce handle force, the linkage was designed to match the forces required to crimp our largest insulated terminal. The result is dramatically less hand force than comparable tools. The angled head and specially designed handles provide comfortable operation.

**Quality.** Every tool crimps with precision, because every tool incorporates the traditional quality of all AMP products.



### SDE PEW 12 Hand Tool

Part No. 9-1478240-0

The unique geometry of this tool results in a comfortable, easy-to-use handle design that is unmatched in the market.

- Easy accessibility for space-constrained applications
- Large crimp jaw arc, minimizing “roll” in open barrel applications
- User-adjustable ratchet control and emergency ratchet release
- Compatible with over 100 interchangeable SDE dies



### SDE DA Hand Tool

Part No. 1213745-1

This tool is specifically designed for closed barrel SDE dies. It incorporates all the convenient operational features of the SDE family.

- Excellent mechanical advantage, enhancing user comfort
- Adjustable ratchet with emergency release

#### Fast Facts

These versatile hand tools are ideally suited for R&D, networking applications, and on-site maintenance work.

- User-adjustable ratchet control for a complete crimping cycle
- Emergency ratchet release
- Angled head, providing a comfortable hand and wrist position
- Over 100 interchangeable SDE die sets to crimp a broad range of connectors
- Able to handle multiple wire and terminal sizes in one die set
- Precision construction of durable high-carbon steel
- Extra strength pivot pins for maximum durability
- Engineered and manufactured using processes independently certified to internationally recognized quality standards ISO-9001:2000 and Telecommunications Industry Standard TL 9000.

## Hand Tool Kits

AMP specialty hand tools are available in convenient kits that contain the tooling, terminations, and spare parts you need for your crimping operations.



### *PRO-CRIMPER III Hand Tool PIDG and PLASTI-GRIP Terminal Kit, Part No. 55823-1*

Includes hand tool (Part No. 58433-3), 225 insulated ring and spade terminals in 12-10, 16-14 and 22-16 AWG [3.0-5.0, 1.3-2.0 and 0.3-1.3 mm<sup>2</sup>] wire sizes.



### *BNC Premises Wiring Kit, Part No. 58477-1*

Includes hand tool (Part No. 58433-1); plugs—5 RG-58, 10 RG-59/62, 5 RG-58 plenum and RG-59/62 plenum sizes; adapters—2 jack-to-jack and 2 “T”.



### *Carrying Case (Empty), Part No. 679223-1*

Includes two empty storage boxes for die sets.

### *PRO-CRIMPER III Hand Tool Repair Kit, Part No. 679221-1*

Includes retaining rings, handle return spring, pawl spring, pivot pins, pawl pin, ratchet pawl, die pins, nut and die set screws.

## Custom Crimp Dies

If you need custom crimp dies, Tyco will design and prototype them for you. A minimum order of 3 pieces is required.

## Manual Wire Preparation

A full selection of manual wire strippers complements these tools, providing a complete solution for convenient, correct wire termination.

### *Coax Stripper, Part No. 1490490-1*

- 3 blades designed to strip RG-6, RG-58, RG-59 cable in one step
- Replaceable blade cartridges



### *Cyclops Cable Stripper, Part No. 1375317-1*

- Outer sheath stripper
- Automatically adjusts to different cable thicknesses
- Works on cable diameters up to 11 mm [0.43 in]



### *Economy Wire Stripper and Cutter, Part No. 1490491-1*

- Strips 10-24 AWG [5.26-0.2 mm<sup>2</sup>]
- Adjustable to any of 8 wire sizes



### *Rotary Cable Stripper, Part No. 606700-1*

- Round cable tool can be used on single- or multiple-conductor cable up to 44.5 mm [1.75 in]



### *Automatic Wire Stripper, Part No. 734185-1*

- Strips PVC, THHN, and THHW
- Adjustable wire stop
- Built-in cutter
- Strips 10-28 AWG [5.26-0.09 mm<sup>2</sup>]



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## Connector/Terminal-to-Tool Reference

| Product Family        | Catalog Number <sup>1</sup>          | AMP® Product   | RG/U Cable <sup>2</sup><br>Wire Size                   | Termination Type/Style                | Part Number                      |                  |
|-----------------------|--------------------------------------|--|--|---------------------------------------|----------------------------------|------------------|
|                       |                                      |  |  |                                       | P/N 354940-1<br>with SDE Die Set | SDE Die Set Only |
| Coaxial Connectors    | 82074                                | 50 Ohm BNC and TNC                                     | RD 316, 180, 195, Belden 8218                          | "O"/Commercial                        | —                                | 58539-1          |
|                       |                                      |  | 58, 62, 59   | "O"/Commercial                        | 58433-1                          | 58435-1          |
|                       |                                      |  | Belden 9248, 9114                                      | Hex/Commercial                        | 58433-2                          | 58436-1          |
|                       |                                      |  | 174, 188, 316, 179, 161, 187                           | "O"/Commercial                        | —                                | 58539-1          |
|                       |                                      |  | 62, 59   | "O"/Commercial                        | 318450-1                         | 318450-2         |
|                       |                                      | 50 Ohm BNC   | Belden 9907, 89907, Comm/Scope 2104                    | "O"/Commercial                        | 318452-1                         | 318452-2         |
|                       |                                      |  | 174, 188, 316, 179, 161, 187                           | Hex/Commercial                        | —                                | 58436-3          |
|                       |                                      |  | 62, 59, Belden 9104, 9112                              | "O"/Commercial & Military             | —                                | 58537-1          |
|                       |                                      |  | Belden 8281, 9141                                      | Hex/Commercial                        | —                                | 58436-2          |
|                       |                                      |  |  | "O"/Commercial & Military             | —                                | 58538-1          |
|                       |                                      |  | 180, 195, Belden 8218, 9248, 9114                      | "O"/Commercial                        | —                                | 58539-1          |
|                       |                                      |  | 58   | "O"/Military                          | —                                | 220189-3         |
|                       |                                      | 75 Ohm BNC and TNC                                     | 62, 59   | "O"/Commercial                        | —                                | 58536-1          |
|                       |                                      |  | 6, Belden 8281   | "O"/Commercial                        | —                                | 58538-1          |
|                       |                                      | 75 Ohm BNC   | 179, 161, 187  | "O"/Commercial                        | 318451-1                         | 318451-2         |
|                       |                                      |  | 62, 59   | Hex/Commercial                        | 58531-2                          | 58425-2          |
|                       |                                      |  | Double Braid 59, Belden 8281, 9141                     | Hex/Commercial                        | 58531-1                          | 58425-1          |
|                       |                                      |  | Belden 9248, 9114                                      | Hex/Commercial                        | 58531-3                          | 58425-3          |
|                       |                                      |  | Belden 8218  | "O"/Commercial                        | —                                | 58536-1          |
|                       |                                      | 50 and 75 Ohm BNC                                      | Belden 8218  | "O"/Commercial                        | —                                | 58174-1          |
|                       |                                      | 50 Ohm N   | 6, Belden 8281   | "O"/Commercial                        | —                                | 58538-1          |
|                       |                                      |  | 58, 62, 59   | Hex/Commercial                        | 58433-2                          | 58436-1          |
|                       |                                      | Miniature UHF  | 8, 213, 11, 216, 9, 214                                | Hex/Commercial                        | 58501-1                          | 58485-1          |
|                       |                                      |  | 58   | Dual Crimp                            | 58506-3                          | 220196-1         |
|                       |                                      | 50 Ohm SMB   | 174, 316, 188, 179, 161, 187, RD 316, 188 Double Braid | Hex/Commercial                        | 58500-1                          | 58489-1          |
|                       |                                      |  | 178, 196, 174, 316, 188, 179, 161, 187                 | Hex/Military                          | 58499-1                          | 58483-1          |
|                       |                                      | 50 and 75 Ohm Consumer BNC                             | 58, 62, 59   | Hex/Commercial                        | —                                | 58046-1          |
|                       |                                      |  | 174, 316, 188, 179, 161, 187                           | "F" / "O"                             | 58558-1                          | 58558-2          |
|                       |                                      | Series F CATV Plugs                                    | 58, 6, 7<br>6.6, 8.2, 9.8 [0.259, 0.324, 0.384] Dia.   | "F" / "O"                             | 58559-1                          | 58559-2          |
|                       |                                      |  | 59, 6, 7<br>7.4, 8.7 [0.290, 0.343] Dia.               | Hex/Commercial                        | 58621-1                          | 58621-2          |
|                       |                                      |  | 59, 6<br>9.1 [0.360] Dia.                              | Hex/Commercial                        | 58622-1                          | 58622-2          |
|                       |                                      | Braid-Pic Braid Termination                            | 58, 62, 59   | Hex/Commercial                        | 58663-1                          | 58663-2          |
| Terminals And Splices | 82042                                | Insulated Terminals and Splices (PIDG and PLASTI-GRIP) | 22-16 AWG [0.3-1.3 mm <sup>2</sup> ]                   | —                                     | —                                |                  |
|                       |                                      |  | 16-14 AWG [1.3-2.0 mm <sup>2</sup> ]                   | —                                     | 58433-3 <sup>3</sup>             |                  |
|                       |                                      |  | 12-10 AWG [3.0-5.0 mm <sup>2</sup> ]                   | —                                     | 58423-1 <sup>3</sup>             |                  |
|                       | 65505                                | Uninsulated Terminals and Splices (SOLISTRAND)         | 22-10 AWG [0.3-5.0 mm <sup>2</sup> ]                   | —                                     | 58546-1                          |                  |
|                       | 65472                                | Closed End Splices                                     | ECV-ECN 18-16 AWG [0.8-1.3 mm <sup>2</sup> ]           | —                                     | —                                |                  |
|                       |                                      |  | ECN 18-10 AWG [0.8-5.0 mm <sup>2</sup> ]               | —                                     | 217212-1                         |                  |
|                       |                                      |  | ECV-ECN 18-10 AWG [0.8-5.0 mm <sup>2</sup> ]           | —                                     | 217212-2                         |                  |
| Spare Wire Caps       | 0.048-0.225 [1.22-5.72] Ins. Dia.    | —  | 58573-1  | —                                     |                                  |                  |
| Receptacles and Tabs  | 82004                                | FASTON 250 Series Recpt.                               | 18-14 AWG [0.8-2.0 mm <sup>2</sup> ]                   | —                                     | 58524-1                          |                  |
|                       |                                      |  | 14-10 AWG [2.0-5.0 mm <sup>2</sup> ]                   | —                                     | 58525-1                          |                  |
|                       |                                      | Ultra-Fast FASTON (Straight)                           | 0.110/0.125 in. Recpt.                                 | 26-14 AWG [0.13-2.0 mm <sup>2</sup> ] | —                                | 58524-2          |
|                       |                                      |  | 0.187/0.250 in. Recpt., 0.250 in. Tabs                 | —                                     | 58628-1                          | 58628-2          |
| 0.250 in. Recpt.      | 12-10 AWG [3.0-5.0 mm <sup>2</sup> ] | —  | 58630-1  | 58630-2                               |                                  |                  |

<sup>1</sup> Request catalog for detailed product information.

<sup>2</sup> Coaxial cable of similar size can be crimped. Request Catalog 82074 for a complete listing of possible cable sizes.

<sup>3</sup> Not for use with PIDG FASTON receptacles; crimp not approved by UL or CSA.

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## Connector/Terminal-to-Tool Reference (continued)

| Product Family                | Catalog Number <sup>1</sup>  | AMP® Product   | Cable or Wire Size  | Part Number                           |                      |
|-------------------------------|--|--|---|---------------------------------------|----------------------|
|                               |  |  |   | P/N 354940-1 with SDE Die Set         | SDE Die Set Only     |
| Fiber Optic Connectors        | 82164 and 296355   | FSMA and ST-Style (S.S.) Connectors (504XXX Series only)                 | 3.0 mm Jacket Dia.  | 58551-1*                              | 58552-1              |
|                               |  | ST-Style, FC Type, D4 and AMP® SC Connectors                             | 3.0 mm Jacket Dia <sup>†</sup>  | 58433-4*                              | 58424-1              |
|                               |  | ST-Style (Ceramic) Connectors  | 3.8 mm Jacket Dia.  | —*                                    | 503890-1             |
|                               |  | FC Type and AMP® SC Connectors (Next Generation)                         | 3.0 mm Jacket Dia.  | 503911-1**                            | 503910-1             |
|                               |  | FSD, FSD MC and RSD Connectors; FSD Breakout Kit                         | DUALAN and LDD  | 58519-1*                              | 58510-1              |
|                               |  | LightCrimp XTC Connectors (Ceramic/Polymer/S.S.)                         | 3.0 mm Jacket Dia.  | 503568-1*                             | 503567-1             |
|                               |  | LightCrimp SC (Ceramic) Connectors                                       | 3.0 mm Jacket Dia.  | 503699-1*                             | 503698-1             |
|                               | 1307099  | LightCrimp Plus ST-Style AMP® SC   | 3.0 mm Jacket Dia.<br>3.0 mm Jacket Dia.  | 492623-1***<br>492782-1***            | 492622-1<br>492783-1 |
| —                             | Multimate Contacts   | 1 mm Plastic Fiber, 2.2 mm Jacket Dia.                                   | 217211-1  | 217211-2                              |                      |
| Pin and Socket Connectors     | 82068  | D-Subminiature 20 DF Pin and Socket Contacts (AMPLIMITE)                 | 28-24 AWG [0.08-0.2 mm <sup>2</sup> ]<br>24-20 AWG [0.2-0.6 mm <sup>2</sup> ]     | 58448-2                               | 58448-3              |
|                               |  | D-Subminiature 22 DF Pin and Socket Contacts (AMPLIMITE)                 | 28-22 AWG [0.08-0.3 mm <sup>2</sup> ]   | 90800-1                               | 90800-2              |
|                               |  | Type II Pin and Socket Contacts  | 24-14 AWG [0.2-2.0 mm <sup>2</sup> ]  | 58541-1                               | 58541-2              |
|                               |  | Type III+ and Type VI Pin and Socket Contacts                            | 28-24 AWG [0.08-0.2 mm <sup>2</sup> ]   | 58495-1                               | 58495-2              |
|                               |  |  | 24-20 AWG [0.2-0.6 mm <sup>2</sup> ]  |                                       |                      |
|                               |  |  | 18-16 AWG [0.8-1.4 mm <sup>2</sup> ]  |                                       |                      |
|                               | 82181  | 0.093 Soft Shell Commercial Pin and Socket Contacts                      | 24-18 AWG [0.2-0.9 mm <sup>2</sup> ]  | 90872-1                               | 90872-2              |
|                               |  |  | 20-14 AWG [0.6-2.0 mm <sup>2</sup> ]  | 90871-1                               | 90871-2              |
|                               |  | 0.062 Soft Shell Commercial Pin and Socket Contacts                      | 30-24 AWG [0.05-0.2 mm <sup>2</sup> ]   | 90870-1                               | 90870-2              |
|                               |  |  | 24-18 AWG [0.2-0.9 mm <sup>2</sup> ]  | 90869-1                               | 90869-2              |
|                               |  | MR Pin and Socket Contacts   | 26-18 AWG [0.13-0.9 mm <sup>2</sup> ]   | 58514-1                               | 58514-2              |
|                               |  |  | 24-18 AWG [0.2-0.9 mm <sup>2</sup> ]  | 90548-1                               | 90548-2              |
|                               |  | Universal MATE-N-LOK II and Universal MATE-N-LOK Pin and Socket Contacts | 20-14 AWG [0.6-2.0 mm <sup>2</sup> ]<br>1.52-3.30 [0.060-0.130] Ins. Dia.         | 90546-1                               | 90546-2              |
|                               |  |  | 20-14 AWG [0.6-2.0 mm <sup>2</sup> ]<br>3.30-5.08 [0.130-0.200] Ins. Dia.         | 90547-1                               | 90547-2              |
|                               |  | Mini-Universal MATE-N-LOK Pin and Socket Contacts                        | 12-10 AWG [3-5 mm <sup>2</sup> ]  | 58530-1                               | 58530-2              |
|                               |  |  | 26-22 AWG [0.13-0.3 mm <sup>2</sup> ]   | 90758-1                               | 90758-2              |
|                               | 22-18 AWG [0.3-0.9 mm <sup>2</sup> ] or Two 22 AWG<br>20-16 AWG [0.6-1.4 mm <sup>2</sup> ] or Two 20 AWG |  | 90759-1<br>90760-1  | 90759-2<br>90760-2                    |                      |
|                               | Commercial MATE-N-LOK Pin and Socket Contacts  | 24-18 AWG [0.2-0.9 mm <sup>2</sup> ]                                     | 90574-1   | 90574-2                               |                      |
|                               |  | 20-14 AWG [0.6-2.0 mm <sup>2</sup> ]                                     | 90575-1   | 90575-2                               |                      |
|                               | Receptacle and Tab Connectors  | —  | Dynamic Series D-3 Contacts   | 24-20 AWG [0.2-0.56 mm <sup>2</sup> ] | 90683-1              |
| —                             |  | 20-16 AWG [0.5-1.42 mm <sup>2</sup> ]                                    |   | 90684-1                               | 90684-2              |
| 65481                         |  | AMPSEAL Automotive Receptacles<br>AMP SUPERSEAL 1.5 SERIES Contacts      | 26-22 AWG [0.13-0.3 mm <sup>2</sup> ]   | 58517-1                               | 58517-2              |
|                               |  |  | 20-16 AWG [0.5-1.25 mm <sup>2</sup> ]   | 58529-1                               | 58529-2              |
| 124962                        |  | EI Series Receptacle Contacts<br>Universal Power Contacts                | 0.5-1.5 mm <sup>2</sup>   | 58583-1                               | 58583-2              |
|                               |  |  | 26-20 AWG [0.13-0.6 mm <sup>2</sup> ]   | 58548-1                               | —                    |
| Modular Plugs                 | 82066  | Modular Plugs (10 Pos.)<br>Modular Plug Strain Relief                    | 26-16 AWG [0.13-1.4 mm <sup>2</sup> ]   | 58564-1                               | —                    |
|                               |  |  | 28-24 AWG [0.08-0.2 mm <sup>2</sup> ] <sup>†</sup><br>5.08 [0.200] Max. Ins. Dia. | 58560-1                               | 58560-2<br>852681-1  |
| PC Card Connectors            | 65701  | INFOPORT Series III Shield Kit   | 3.43-3.81 [0.135-0.150] Ins. Dia.   | 224933-1                              | 224933-2             |
| Universal Data Connector Kits | 82164  | AMP® Crimp Ring  | Type I, 2, 6, 9 and MONTROSE  | —                                     | 58450-1              |

Request catalog for detailed product information.

<sup>†</sup> Terminates cable with 24 AWG [0.2 mm<sup>2</sup>] conductors with 0.039 [0.99] Max. O.D.

\* Tool Frame Part No. 58532-1.

\*\* Tool Frame Part No. 58588-1.

\*\*\* Tool Frame Part No. 58532-2.

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Premium Coax Dies—when used in combination with the proper connectors, meet all applicable Tyco termination and performance requirements

| Part No. <sup>1</sup> | Description  |
|-----------------------|--|
| 91900-1               | Fiber Optic  |
| 91901-1               | BNC RG 55B   |
| 91902-1               | N Series RG 141  |
| 91903-1               | TNC RG 59  |
| 91904-1               | Coax RG 187  |
| 91904-2               | Coax RG 59,62  |
| 91904-3               | Coax RG 55   |
| 91904-4               | Coax RG 58   |
| 91905-1               | ARINC 3 crimp  |
| 91907-1               | ARINC #8 Triax   |
| 91908-1               | SMA RG 188, 58   |
| 91909-1               | BNC Coax   |
| 91910-1               | Coax RG 187  |
| 91911-1               | Coax RG 187  |
| 91911-2               | Coax RG 180  |
| 91911-3               | Coax   |
| 91911-4               | Coax   |
| 91912-1               | Coax   |
| 91912-3               | Mini Coax  |
| 91912-5               | Mini Coax  |
| 220189-1              | Comm BNC, RG 58  |
| 220189-2              | Comm BNC, RG 59  |
| 220189-3              | Comm BNC   |
| 1424050-1             | BNC  |
| 91963-2 <sup>2</sup>  | Premium PIDG Die Assy,<br>16-14 AWG<br>(Same as crimp form in 47387)   |
| 91964-2 <sup>2</sup>  | Premium PIDG Die Assy,<br>22-16 AWG<br>(Same as crimp form in 47386)   |
| 91965-2 <sup>2</sup>  | Premium PIDG Die Assy,<br>12-10 AWG<br>(Same as crimp form in 59239-4) |

1. Premium coax SDE die set only. Requires additional hand tool or power source.
2. These die options provide the same crimp profiles as those provided in our CERTI-CRIMP hand tool line and include adjustable insulation. The CERTI-CRIMP options have attained MIL-T-7928 qualification, when used with the correct terminals.



A copy of the certificate is available upon request.

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