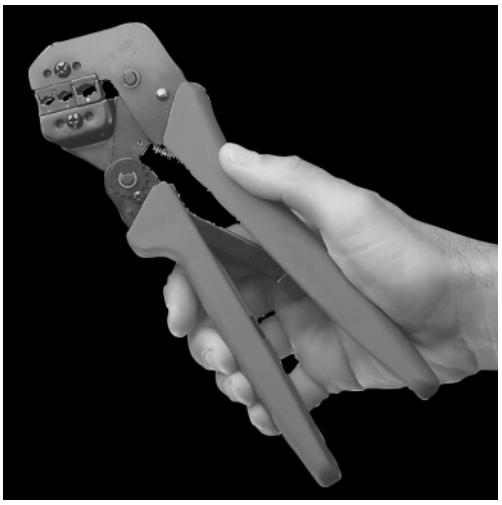
Specialty Hand Tools and Accessories

Easier on the Hand, Precise on the Crimp



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.

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

tyco Electronics

AMP

Downloaded from Elcodis.com electronic components distributor

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 mm²] 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 mm²]
- 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 mm²]

tyco Electronics

AMP

Need More Information? For information about tooling, call 1-800-522-6752 or e-mail toolsales@tycoelectronics.com.

For drawings or technical data, contact your Tyco Electronics sales engineer or call the Technical Support Center: 1-800-522-6752. Dimensions are in millimeters unless specified otherwise. Values in brackets are English equivalents unless specified otherwise. Specifications subject to change. Consult Tyco Electronics for latest specifications.

Downloaded from Elcodis.com electronic components distributor

Connector/Terminal-to-Tool Reference

Product Family	Catalog Number[1]	AMP® Product	RG/U Cable[2] Wire Size	Termination Type/Style	Part Number: P/N 354940-1 with SDE Die Set	Part Number: 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
				Hex/Commercial	58433-2	58436-1
			Belden 9248, 9114	"O"/Commercial	—	58539-1
			174, 188, 316, 179, 161, 187	"O"/Commercial	318450-1	318450-2
			62, 59	"O"/Commercial	—	58435-1
		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
				Hex/Commercial	58531-2	58425-2
			62, 59	Hex/Commercial	58531-1	58425-1
			Double Braid 59, Belden 8281, 9141	Hex/Commercial	58531-3	58425-3
			Belden 9248, 9114	"O"/Commercial	—	58536-1
			Belden 8218	"O"/Commercial	—	58174-1
		50 and 75 Ohm BNC	6, Belden 8281	"O"/Commercial	—	58538-1
		50 Ohm N	58, 62, 59	Hex/Commercial	58433-2	58436-1
			8, 213, 11, 216, 9, 214	Hex/Commercial	58501-1	58485-1
		Miniature UHF	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
				Hex/Military	58499-1	58483-1
			178, 196, 174, 316, 188, 179, 161, 187	Hex/Commercial	—	58046-1
		50 and 75 Ohm Consumer BNC	58, 62, 59	"F" / "O"	58558-1	58558-2
			174, 316, 188, 179, 161, 187	"F" / "O"	58559-1	58559-2
		Series F CATV Plugs	58, 6, 7 6.6, 8.2, 9.8 [0.259, 0.324, 0.384] Dia.	Hex/Commercial	58621-1	58621-2
			59, 6, 7 7.4, 8.7 [0.290, 0.343] Dia.	Hex/Commercial	58622-1	58622-2
			59, 6 9.1 [0.360] Dia.	Hex/Commercial	58663-1	58663-2
		Braid-Pic Braid Termination	58, 62, 59	—	—	220195-1
Terminals And Splices	82042	Insulated Terminals and Splices (PIDG and PLASTI-GRIP)	22-16 AWG [0.3-1.3 mm²]	—	58433-3[3]	58423-1[3]
			16-14 AWG [1.3-2.0 mm²]			
			12-10 AWG [3.0-5.0 mm²]			
	65505	Uninsulated Terminals and Splices (SOLISTRAND)	22-10 AWG [0.3-5.0 mm²]	—	58546-1	58545-1
	65472	Closed End Splices	ECV-ECN 18-16 AWG [0.8-1.3 mm²]	—	217212-1	217212-2
			ECN 18-10 AWG [0.8-5.0 mm²]			
			ECV-ECN 18-10 AWG [0.8-5.0 mm²]			
		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 mm²]	—	58524-1	58524-2
			14-10 AWG [2.0-5.0 mm²]	—	58525-1	58525-2
		Ultra-Fast FASTON (Straight) 0.110/0.125 in. Recpt.	26-14 AWG [0.13-2.0 mm²]	—	58628-1	58628-2
		Ultra-Fast FASTON (Straight) 0.187/0.250 in. Recpt., 0.250 in. Tabs				
		Ultra-Fast FASTON (Straight) 0.250 in. Recpt.	12-10 AWG [3.0-5.0 mm²]	—	58630-1	58630-2

[1] Request catalog for detailed product information.

[2] Coaxial cable of similar size can be crimped. Request Catalog 82074 for a complete listing of possible cable sizes.

[3] Not for use with PIDG FASTON receptacles; crimp not approved by UL or CSA.

tyco Electronics

AMP

Need More Information? For information about tooling, call 1-800-522-6752 or e-mail toolsales@tycoelectronics.com.

For drawings or technical data, contact your Tyco Electronics sales engineer or call the Technical Support Center: 1-800-522-6752. Dimensions are in millimeters unless specified otherwise. Values in brackets are English equivalents unless specified otherwise. Specifications subject to change. Consult Tyco Electronics for latest specifications.

Downloaded from Elcodis.com electronic components distributor

Connector/Terminal-to-Tool Reference (continued)

Product Family	Catalog Number[1]	AMP® Product	Cable or Wire Size	Part Number: P/N 354940-1 with SDE Die Set	Part Number: 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.	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	3.0 mm Jacket Dia.	492623-1***	492622-1
		LightCrimp Plus AMP® SC	3.0 mm Jacket Dia.	492782-1***	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 mm²]	58448-2	58448-3
			24-20 AWG [0.2-0.6 mm²]		
		D-Subminiature 22 DF Pin and Socket Contacts (AMPLIMITE)	28-22 AWG [0.08-0.3 mm²]	90800-1	90800-2
		Type II Pin and Socket Contacts	24-14 AWG [0.2-2.0 mm²]	58541-1	58541-2
		Type III+ and Type VI Pin and Socket Contacts	28-24 AWG [0.08-0.2 mm²]	58495-1	58495-2
			24-20 AWG [0.2-0.6 mm²]		
			18-16 AWG [0.8-1.4 mm²]		
	82181	0.093 Soft Shell Commercial Pin and Socket Contacts	24-18 AWG [0.2-0.9 mm²]	90872-1	90872-2
			20-14 AWG [0.6-2.0 mm²]	90871-1	90871-2
		0.062 Soft Shell Commercial Pin and Socket Contacts	30-24 AWG [0.05-0.2 mm²]	90870-1	90870-2
			24-18 AWG [0.2-0.9 mm²]	90869-1	90869-2
		MR Pin and Socket Contacts	26-18 AWG [0.13-0.9 mm²]	58514-1	58514-2
		Universal MATE-N-LOK II and Universal MATE-N-LOK Pin and Socket Contacts	24-18 AWG [0.2-0.9 mm²]	90548-1	90548-2
			20-14 AWG [0.6-2.0 mm²] 1.52-3.30 [0.060-0.130] Ins. Dia.	90546-1	90546-2
			20-14 AWG [0.6-2.0 mm²] 3.30-5.08 [0.130-0.200] Ins. Dia.	90547-1	90547-2
			12-10 AWG [3-5 mm²]	58530-1	58530-2
		Mini-Universal MATE-N-LOK Pin and Socket Contacts	26-22 AWG [0.13-0.3 mm²]	90758-1	90758-2
			22-18 AWG [0.3-0.9 mm²] or Two 22 AWG	90759-1	90759-2
			20-16 AWG [0.6-1.4 mm²] or Two 20 AWG	90760-1	90760-2
		Commercial MATE-N-LOK Pin and Socket Contacts	24-18 AWG [0.2-0.9 mm²]	90574-1	90574-2
			20-14 AWG [0.6-2.0 mm²]	90575-1	90575-2
Receptacle and Tab Connectors	—	Dynamic Series D-3 Contacts	24-20 AWG [0.2-0.56 mm²]	90683-1	90683-2
			20-16 AWG [0.5-1.42 mm²]	90684-1	90684-2
	—	CST-100 Contacts	26-22 AWG [0.13-0.3 mm²]	58517-1	58517-2
	65481	AMPSEAL Automotive Receptacles	20-16 AWG [0.5-1.25 mm²]	58529-1	58529-2
		AMP SUPERSEAL 1.5 SERIES Contacts	0.5-1.5 mm²	58583-1	58583-2
	124962	EI Series Receptacle Contacts	26-20 AWG [0.13-0.6 mm²]	58548-1	—
		Universal Power Contacts	26-16 AWG [0.13-1.4 mm²]	58564-1	—
Modular Plugs	82066	Modular Plugs (10 Pos.)	28-24 AWG [0.08-0.2 mm²]†	58560-1	58560-2
		Modular Plug Strain Relief	5.08 [0.200] Max. Ins. Dia.	—	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 1, 2, 6, 9 and MONTROSE	—	58450-1

Request catalog for detailed product information.

† Terminates cable with 24 AWG [0.2 mm²] 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.

tyco Electronics

AMP

Need More Information? For information about tooling, call 1-800-522-6752 or e-mail toolsales@tycoelectronics.com.

For drawings or technical data, contact your Tyco Electronics sales engineer or call the Technical Support Center: 1-800-522-6752. Dimensions are in millimeters unless specified otherwise. Values in brackets are English equivalents unless specified otherwise. Specifications subject to change. Consult Tyco Electronics for latest specifications.

Downloaded from Elcodis.com electronic components distributor

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

Part No.[1]	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[2]	Premium PIDG Die Assy, 16-14 AWG (Same as crimp form in 47387)
91964-2[2]	Premium PIDG Die Assy, 22-16 AWG (Same as crimp form in 47386)
91965-2[2]	Premium PIDG Die Assy, 12-10 AWG (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.

ISO 9001 Certified

A copy of the certificate is available upon request.

©2004 by Tyco Electronics Corporation.
All Rights Reserved. AMP, AMPLIMITE, AMPSEAL, AMP SUPERSEAL 1.5 SERIES, DUALAN, FASTON, FSD, INFOPORT, LightCrimp, MATE-N-LOK, PIDG, PLASTI-GRIP, PRO-CRIMPER, RSD, SOLISTRAND and TYCO are trademarks.

Belden is a trademark of Belden Wire and Cable of Cooper Industries.
ST-Trademark of American Telephone & Telegraph Co.
MONTROSE-Trademark of MONTROSE Products Co.

Need More Information?

For information about tooling, call 1-800-522-6752
or e-mail toolsales@tycoelectronics.com.

tyco Electronics

AMP

For drawings or technical data, contact your Tyco Electronics sales engineer or call the Technical Support Center: 1-800-522-6752. Dimensions are in millimeters unless specified otherwise. Values in brackets are English equivalents unless specified otherwise. Specifications subject to change. Consult Tyco Electronics for latest specifications.

Downloaded from Elcodis.com electronic components distributor